ORDER NO. AD9104082C8

Service Manual

Amplifier

Amplifier

SU-CH7

Color

(K) ..... Black Type

Areas

Country Code	Area	Color
(E)	Continental Europe.	(K)
(EB)	Great Britain.	
(EG)	F.R. Germany and Italy.	
(GC)	Asia, Latin America, Middle Near East and Africa.	
(GN)	Oceania.	

Because of unique interconnecting cables, when a component requires service, send or bring in the entire system.

System: SC-CH7

■ SPECIFICATIONS

(DIN 45 500)

■ MAIN AMP. SECTION

Power output DIN 1 kHz THD 1% 6Ω 2×25 W
10 kHz THD 1% 8Ω 2×5 W

both channel driven at 240 V

Total harmonic distortion

half power at 1 kHz: Low Amp 0.09% (6Ω)

Headphones output level/impedance 300 mV/330Ω

■ PRE AMP. SECTION

Input sensitivity/impedance

PHONO 3 mV/47 kΩ

MIC 0.7 mV/10 kΩ

DAT 250 mV/27 kΩ

S/N (rated power, 6Ω): Low Amp

PHONO 70 dB (IHF. A 75 dB)

DAT, CD, TAPE 84 dB (IHF. A 85 dB)

Graphic equalizer control
80 Hz, 250 Hz, 1 kHz, 4 kHz, 12.5 kHz

Muting −20 dB

Super bass 55 Hz, +4 dB

Output voltage/impedance

DAT REC OUT 150 mV

■ GENERAL

Power consumption 250 W

Power supply

For Great Britain and Oceania AC 50/60 Hz, 230~240 V

For F.R. Germany, Italy and Continental Europe
AC 50/60 Hz, 230 V

For others AC 50/60 Hz, 110 V~127 V/220 V~240 V

Dimensions (W×H×D) 215×110×303 mm
(8 15/32" × 4 11/32" × 11 15/16")

Weight 4.3 kg (9.3 lb.)

Notes:

1. Total harmonic distortion is measured by the digital spectrum analyzer.
2. Specifications are subject to change without notice.
3. Weight and dimensions shown are approximate.

System	Tuner	Amplifier	CD Player	Cassette Deck	Speakers
SC-CH7	ST-CH7L	SU-CH7	SL-CH7	RS-CH7	SB-CH7

Technics/Panasonic

(E) (EB) (EG) **(GC) (GN)**

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■ BEFORE REPAIR

(1) Turn off the power supply. Using a 10Ω, 5 W resistor connect both ends of power supply capacitors (C703, C704) in order to discharge the voltage.
(2) Before turning the power supply on, after completion of repair, slowly apply the primary voltage by using a power supply voltage controller to make sure that the consumed current at 50 Hz/60 Hz in NO SIGNAL mode should be shown below with respect to supply voltage 110 V~127 V/220 V~240 V.

Power supply voltage	AC 120 V	AC 240 V
Consumed current 50 Hz	—	85~255 mA
Consumed current 60 Hz	160~480 mA	—

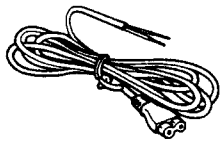
■ PROTECTION CIRCUITRY

The protection circuitry may have operated if either of the following conditions is noticed:
•No sound is heard when the power is switched ON.
•Sound stops during a performance.
The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.
If this occurs, follow the procedure outlined below:

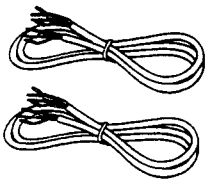
1. Switch OFF the power.
2. Determine the cause of the problem and correct it.
3. Switch ON the power once again.

Note:
When the protection circuitry functions, the unit will not operate unless the power is first switched OFF and then ON again.

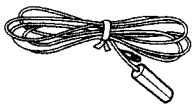
■ ACCESSORIES



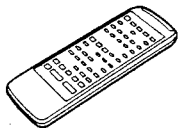
•AC power supply cords (1)
<SFDAC05E03>
for (E, EG) area
<SJA193> for (EB) area
<RJA0004> for (GC) area
<SJA173> for (GN) area



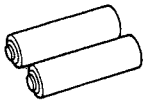
•Speaker cords (2)
<REC201B50Q-1>



•FM indoor antenna (1)
<SSA270M>
for (E, EB, EG) area
<SSA272M> for (GC, GN) area



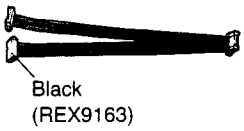
•Remote control transmitter (1)
<RAK-SC510W>
for (E, EB, EG) area
<RAK-SC511W>
for (GC, GN) area



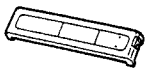
•Remote control batteries (2)
(UM-4, "AAA", R03)

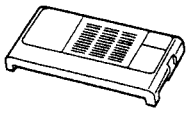
•Attachment plug (1)
<SJP9009> for (EB) area

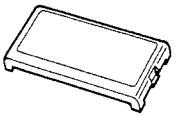
- Flat cables (2)



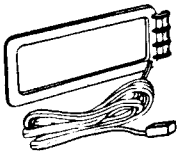
- Back cover (4)





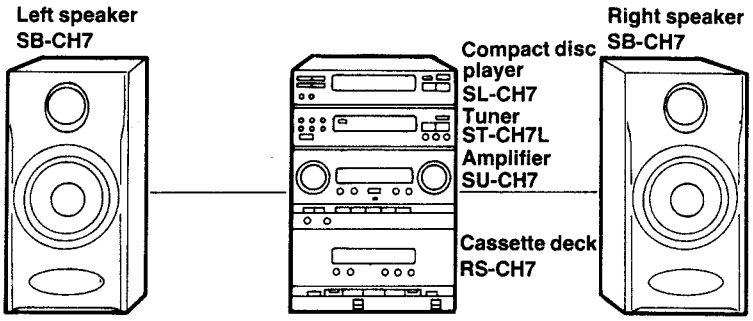


- LW/MW loop antenna (1)
  and Antenna holder (1)
  and mounting screws (2)

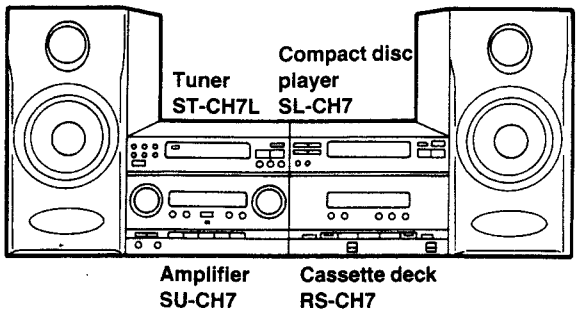


■ HOW TO INSTALL THE SYSTEM

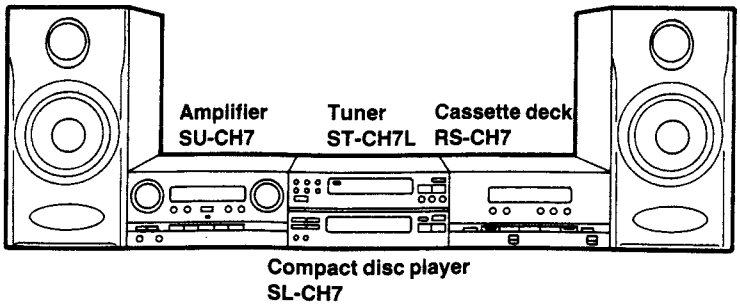
Installing the components vertically



Installing the components horizontally



Installing the components on a line



■ CONNECTIONS

Flat cables

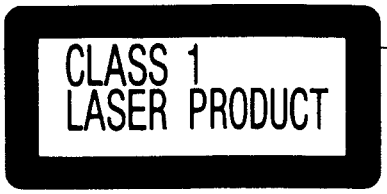
After connection, please fold and press the cables as flat to the back of the unit as possible.

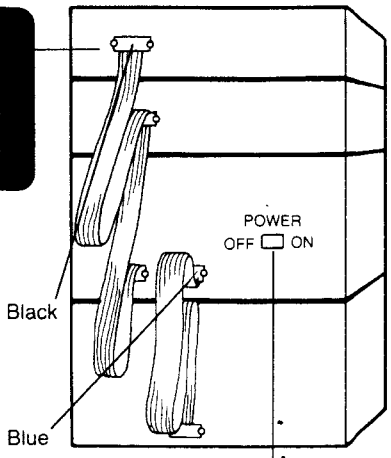
From the amplifier to the cassette deck

(Blue) (Blue)

From the compact disc player via the tuner to the amplifier

(Black) (Black)



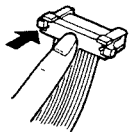


Power switch is located on the rear panel.
Make sure that the power switch on the back of the amplifier is switched ON.

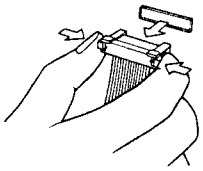
Connecting

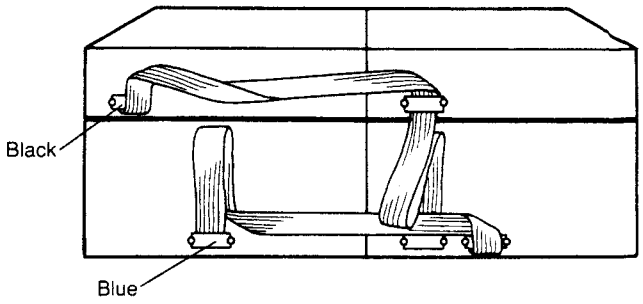
Hold the connector with the recessed part up and press in at the center until you hear a click.

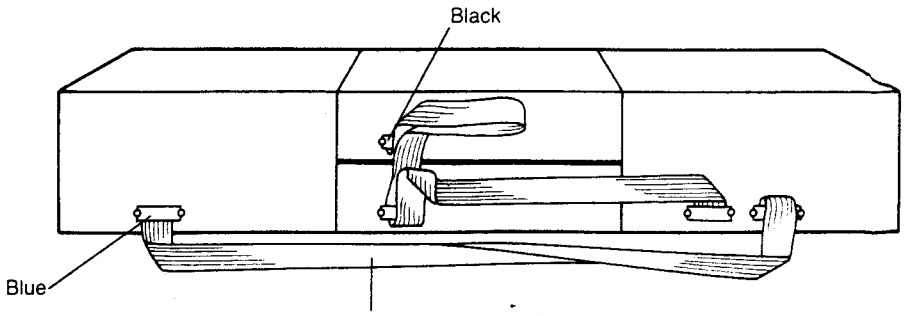
The white line should be on the right side.



Disconnecting





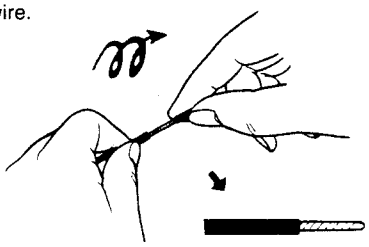


When installing the back cover, put this flat cable out of the back cover.

Speaker cables

Other types of speaker cannot be connected to this unit.
Match the four wires from the left and right speaker cables with the same colored levers of the speaker terminales, then insert the wires into the respective terminals.

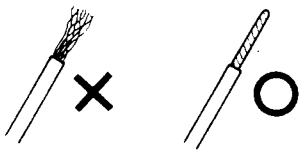
① Twist the wire.



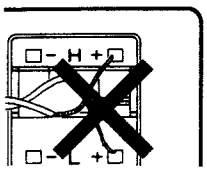
② Push down on the lever, insert the bare ends of the wires, and push up the lever. (Refer to the right)

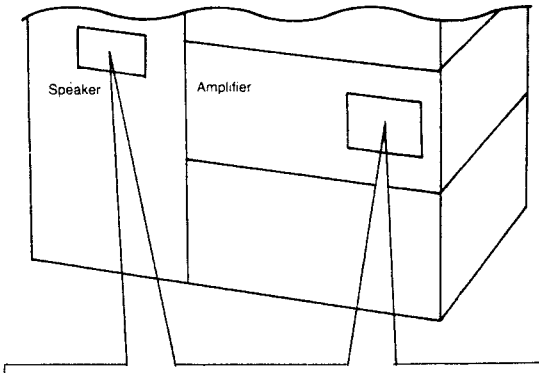
Note:

•Make sure the bare ends of the wires are not unraveled. (If they are, twist them tight again.)

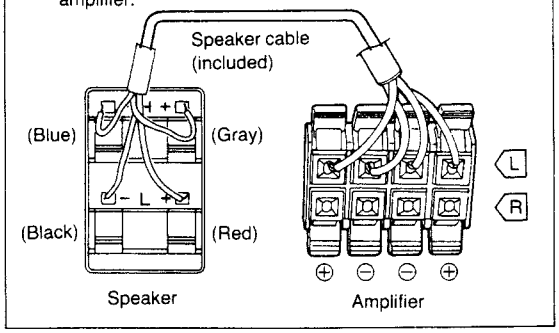


•Take care not to short the wires. (The main unit could be damaged if they are shorted.)





First connect the cables to the speakers, then to the amplifier.



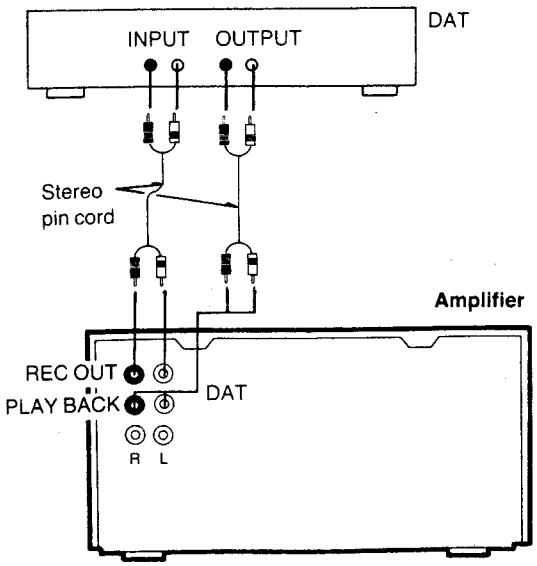
Notice for speaker connections:

Connect each color coded wire of the speaker cable to the corresponding color coded terminal according to the following chart.

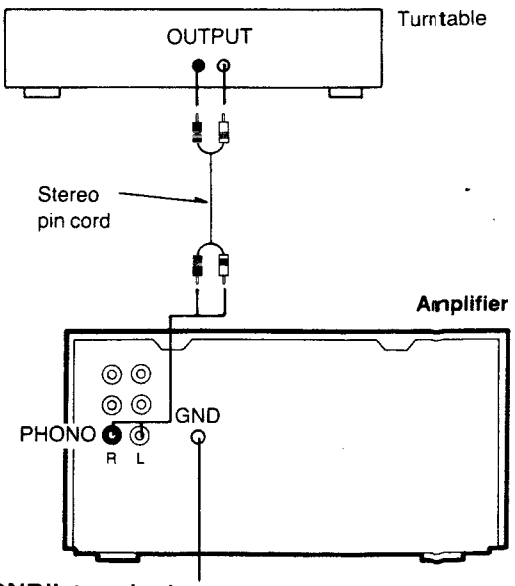
Polarity	–	+
High tone	Blue	Gray
Low tone	Black	Red

External unit connection

■ DAT (digital audio tape deck)



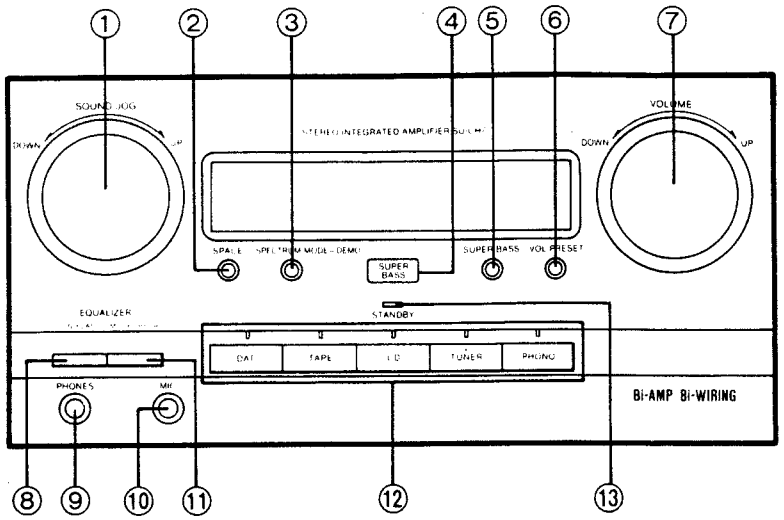
■ PHONO (turntable system)



■ "GND" terminal

This terminal is for use with turntables which have a ground wire.

■ LOCATION OF CONTROLS



Amplifier: control section

① Sound effect level control (SOUND JOG)
This control is used for adjusting the level of the ambience enhancement effect and the equalization level.

② Ambience enhancement button (SPACE)
This button is used to activate ambience enhancement mode.

③ Spectrum mode-select/demonstration button (-SPECTRUM MODE—DEMO)
This button is used to select one of the six spectrum curves. If you press and hold this button, six types of sound effects (spectrum curve in combination with ambience enhancement) will be sequentially changed (Demonstration mode).

④ Super bass indicator
Illuminates when the super bass mode is activated.

⑤ Super bass button (SUPER BASS)
When this button is pressed, the dynamic low frequency ranges are boosted.

⑥ Volume preset button (VOL. PRESET)
This button is used to make a volume presetting.

⑦ Volume level control (VOLUME)
This control is used to adjust the volume level (−82 dB~ 0 dB). Note that −82 dB is the lowest volume setting and 0 dB is the highest level setting.

⑧ Equalization function button (ON/FLAT)
This button is used to switch the equalization correction function. If no equalization correction is desired, press this button again to cancel the function.

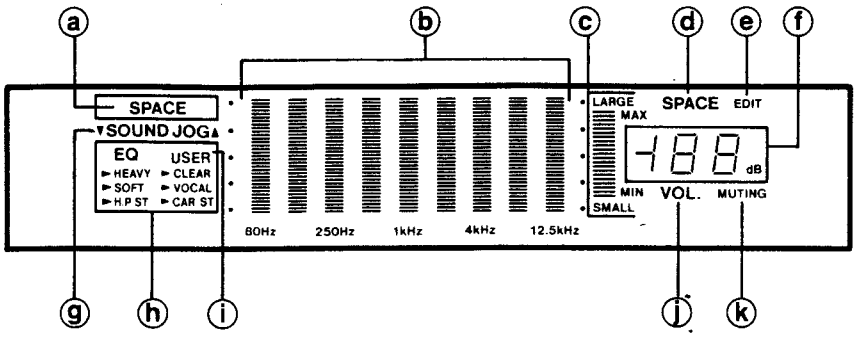
⑨ Headphones jack (PHONES)

⑩ Microphone jack (MIC)

⑪ Equalization mode-select/recall button (-MODE—RECALL)
This button is used to retrieve a pre-programmed equalization curve from the memory. If you press and hold this button, a curve you programmed can be retrieved.

⑫ Input selectors and indicators
These selectors are used to select the sound source to be heard. When the sound source is selected, the indicator above the selector will illuminate.

⑬ Standby indicator (STANDBY)
This indicator illuminates when the power "STANDBY/ON" switch of the unit or that of the remote control is switched "OFF". Its purpose is to alert the user of the constant supply voltage to the internal circuitry even with the power switch OFF.
For this unit, even if this switch is switched to the "STANDBY" position, there is still a slight power consumption of about 17 watts: this is in order to retain of the "most recent" memory and the preset-memory functions.



Amplifier: display section

ⓐ Ambience enhancement mode indicator (SPACE)
Illuminates when the ambience enhancement mode is activated.

ⓑ Spectrum analysis display
This display shows the spectrum analysis level.

ⓒ Level meter
Display the volume level as it is being adjusted by the volume control. When adjusting the level of the ambience enhancement effect with the sound effect level control, the display shows the level of the ambience enhancement effect.

ⓓ Ambience enhancement adjustment indicator (SPACE)
Illuminates when adjusting the level of the ambience enhancement effect.

ⓔ CD edit indicator (EDIT)
Illuminates when making an edit-recording of a compact disc.

ⓕ Volume level display
Displays the volume level.

ⓖ Sound effect indicator (▼ SOUND JOG ▲)
When "▼" illuminates, it shows the equalization curves can be adjusted, and when "▲" illuminates, it shows that the ambience enhancement effect can be adjusted.

ⓗ Equalization mode indicators (HEAVY-CAR ST)
These indicators show which of the six equalization curves is currently used.

ⓘ "USER" indicator (USER)
This indicator illuminates to show that the desired equalization curves can be programmed into memory or retrieved from the memory.

ⓙ Volume indicator (VOL.)
Illuminates when adjusting the volume level.

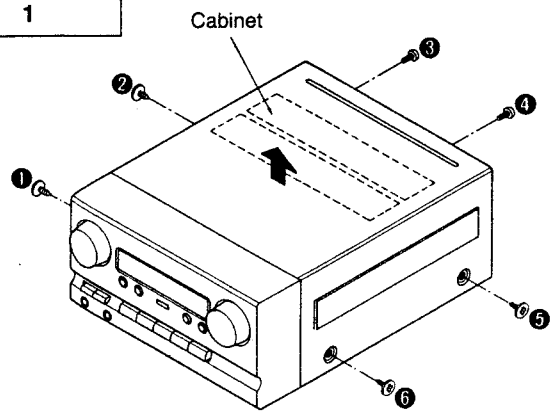
ⓚ Muting indicator (MUTING)
Illuminates when the muting mode is activated.

■ DISASSEMBLY INSTRUCTIONS

"ATTENTION SERVICER"
Some chassis components may have sharp edges. Be careful when disassembling and servicing.

Ref. No. 1 — **Removal of the Cabinet**

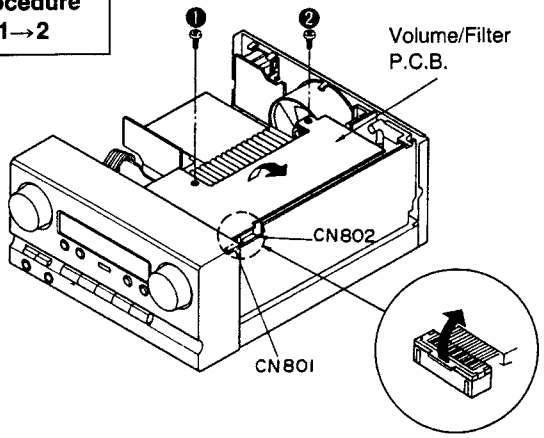
Procedure 1



•Remove 6 screws (❶~❻).

Ref. No. 2 — **Removal of the Volume/Filter P.C.B.**

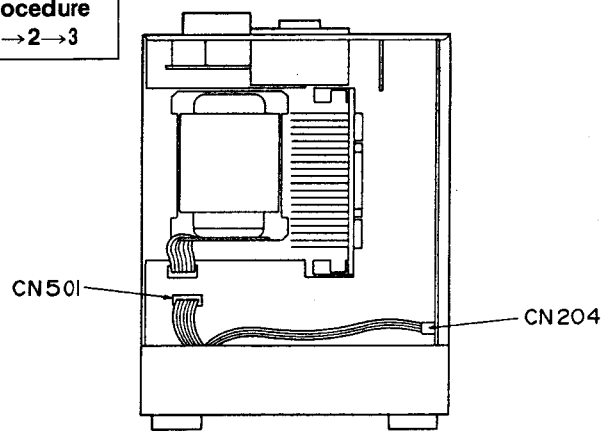
Procedure 1→2



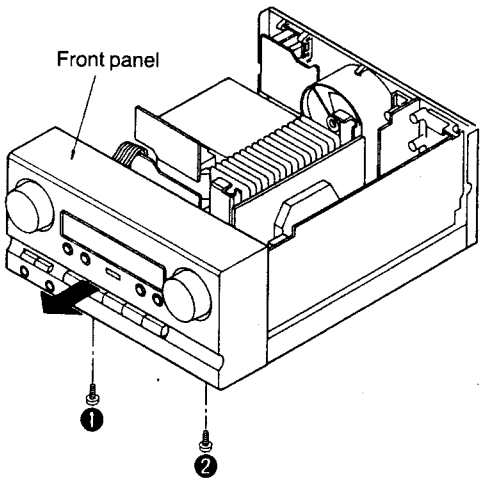
1. Remove 2 screws (❶, ❷).
2. Remove the front panel in the direction of arrow.

Ref. No. 3 — **Removal of the Front Panel**

Procedure 1→2→3



1. Remove 2 flat cables (CN204, CN501).

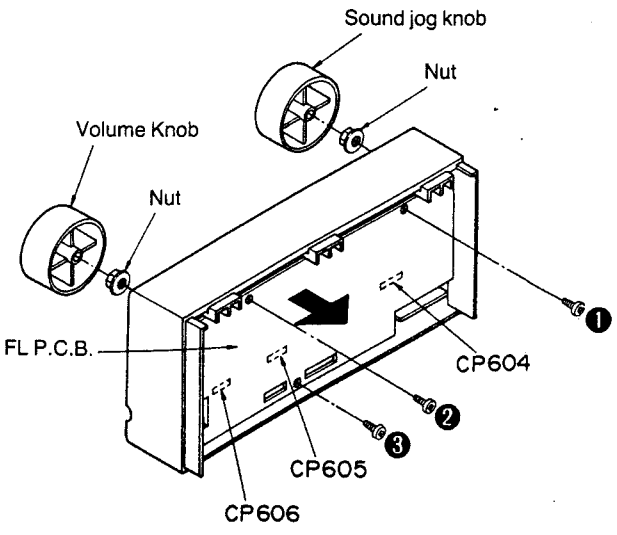


2. Remove the 2 screws (❶, ❷).
3. Remove the front panel in the direction of arrow.

Ref. No. 4 — **Removal of the FL P.C.B.**

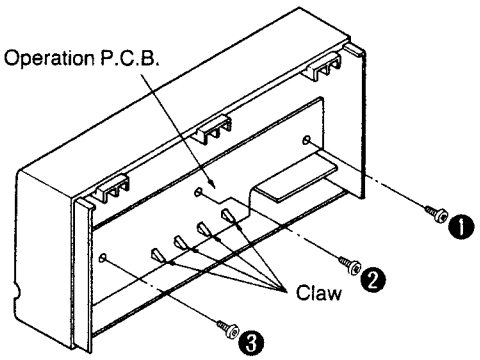
Procedure 1→2→3→4

1. Remove the volume knob and nut.
2. Remove the sound jog knob and nut.
3. Remove 3 screws (❶~❸).
4. Remove the P.C.B. in the direction of arrow, making sure not to damage the connectors (CP604, CP605, CP606).



Ref. No. 5	Removal of the Operation P.C.B.

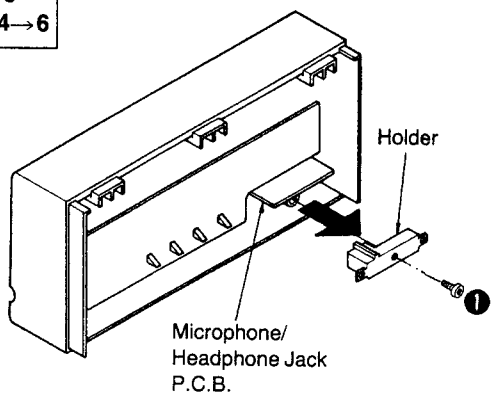
Procedure
1→2→3→4→5



1. Remove 3 screws (❶~❸).
2. Remove 4 claws.

Ref. No. 6	Removal of the Microphone/ Headphone Jack P.C.B.

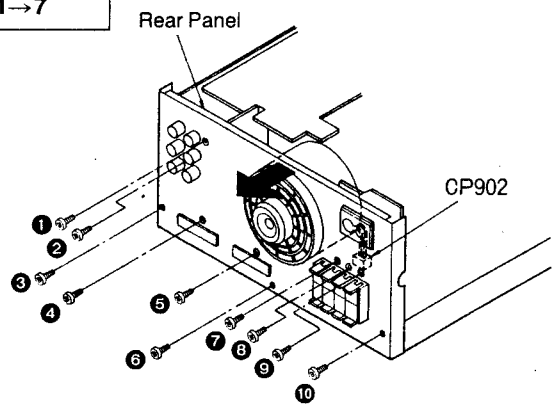
Procedure
1→2→3→4→6



1. Remove the screw (❶).
2. Remove the holder.
3. Remove the P.C.B in the direction of arrow.

Ref. No. 7	Removal of the Rear Panel

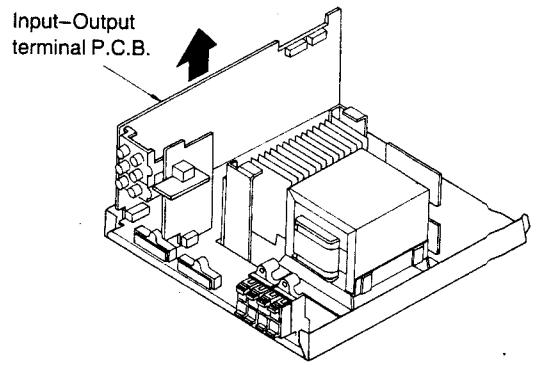
Procedure
1→7



1. Remove 10 screws (❶~❿).
2. Remove the connector (CP902).
3. Remove the rear panel in the direction of arrow.

Ref. No. 8	Removal of the Input–Output terminal P.C.B.

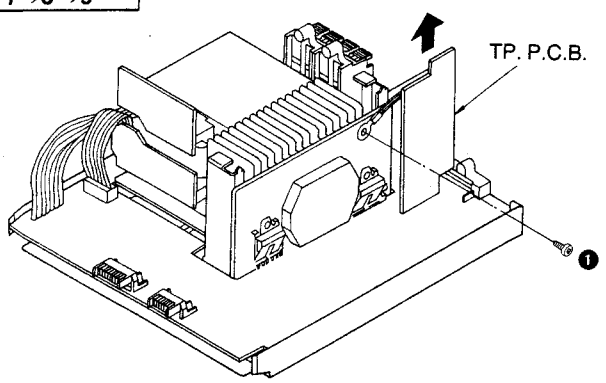
Procedure
1→2→3→7→8



•Remove the P.C.B. in the direction of arrow.

Ref. No. 9	Removal of the TP. P.C.B.

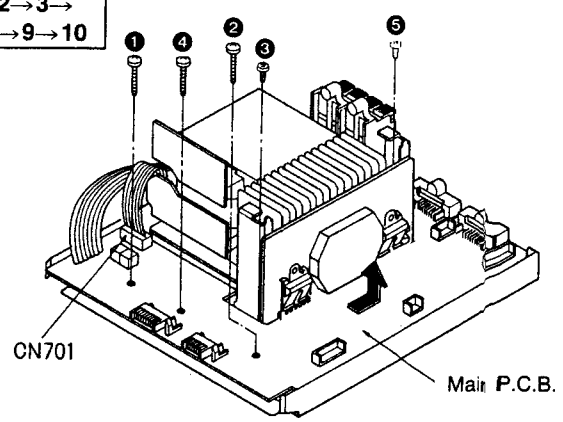
Procedure
1→2→3→
7→8→9



1. Remove the screw (❶).
2. Remove the P.C.B. in the direction of arrow.

Ref. No. 10	Removal of the Main P.C.B.

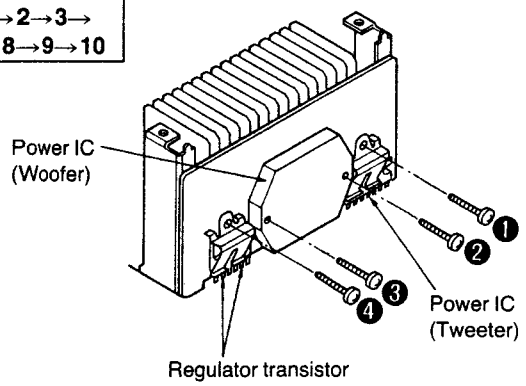
Procedure
1→2→3→
7→8→9→10



1. Remove the flat cable (CN701).
2. Remove 5 screws (❶~❺).

Ref. No. 11	Removal of the Power IC and Regulator Transistor

Procedure
1→2→3→
7→8→9→10

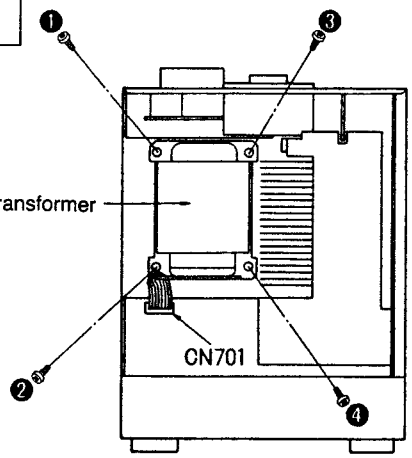


1. Unsolder the power IC.
2. Remove 4 screws (❶~❹).

- When mounting the power IC or regulator transistor. Apply silicone compound (SZZOL155) to the rear side of power IC or regulator transistor.

Ref. No. 12	Removal of the Power Transformer

Procedure
1→12



1. Remove the flat cable (CN701).
2. Remove the 4 screws (❶~❹).

Ref. No. 13	Removal of the Fan Motor

Procedure
1→7→13

1. Release the 3 claws (shown in Fig. 1).
2. Insert a screwdriver at the root of the cooling fan.

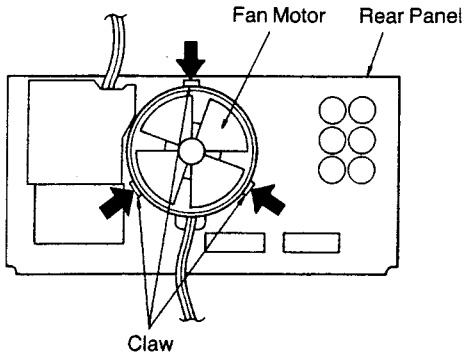


Fig. 1

3. Remove the motor cover (shown in Fig. 3).
4. Remove the motor from the fan casing (shown in Fig. 4).
5. When mounting the motor fan. align the fan casings progection with the hole of the fan motor (shown in Fig. 5).

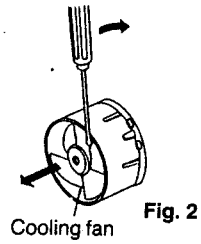


Fig. 2

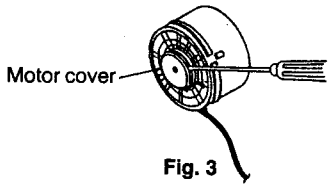


Fig. 3

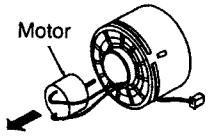


Fig. 4

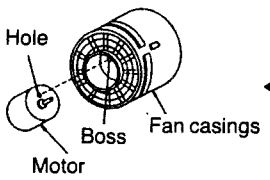
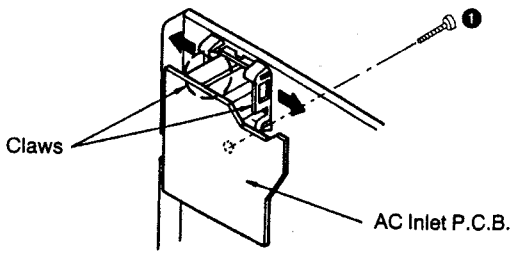


Fig. 5

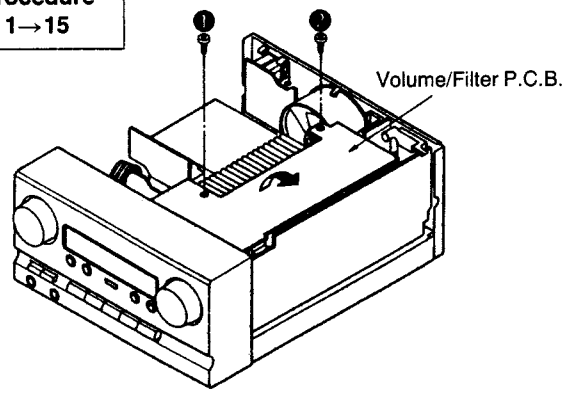
Ref. No. 14	Removal of AC Inlet P.C.B.

Procedure
1→14

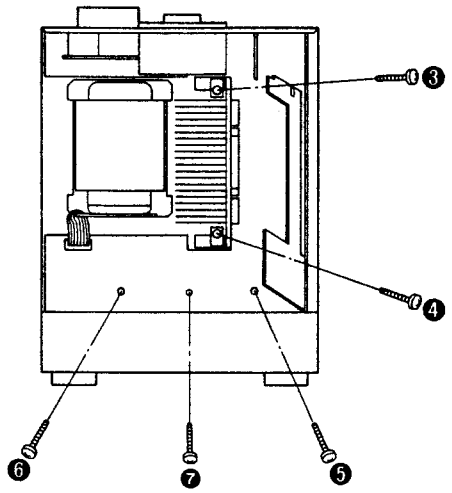
1. Remove the screw (❶).
2. Remove 2 claws.



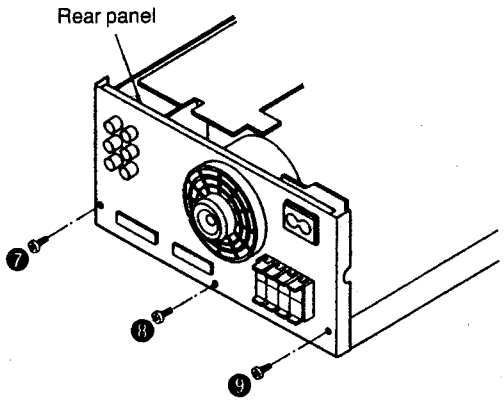
Ref. No. 15	Check the Main P.C.B.
Procedure 1→15	



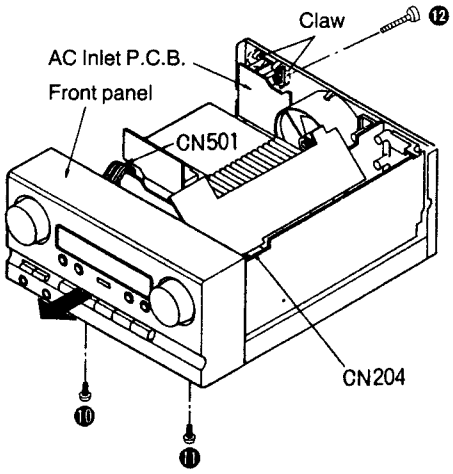
1. Remove 2 screws (❶, ❷).
2. Lift the volume/filter P.C.B. in the direction of arrow.



3. Remove 5 screws (❸~❼).



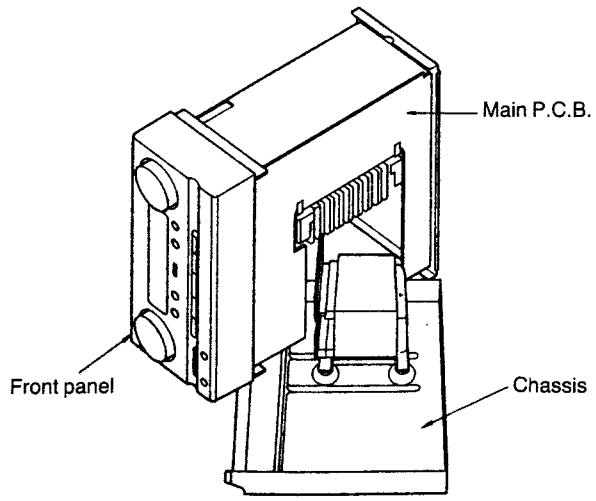
4. Remove 3 screws (❼~❾).



5. Remove 2 screws (❿, ⓫).
6. Remove the front panel in the direction of arrow.

Note:
Conect the flat cable to the connectors (CN204, CN501).

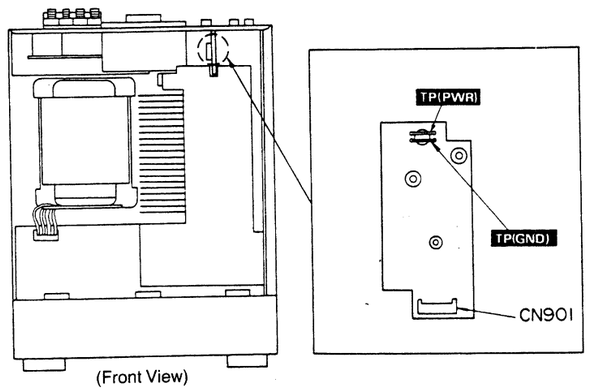
7. Remove the screw (⓬).
8. Remove 2 claws and then remove the AC inlet P.C.B.



9. Reinstall the front panel to the Main P.C.B.

Set the Power switch of rear panel "ON" position.
For (E), (EB), (EG), (GN) areas.

between **TP (GND)** and **TP (PWR)** on the control terminal P.C.B. for power on and off.

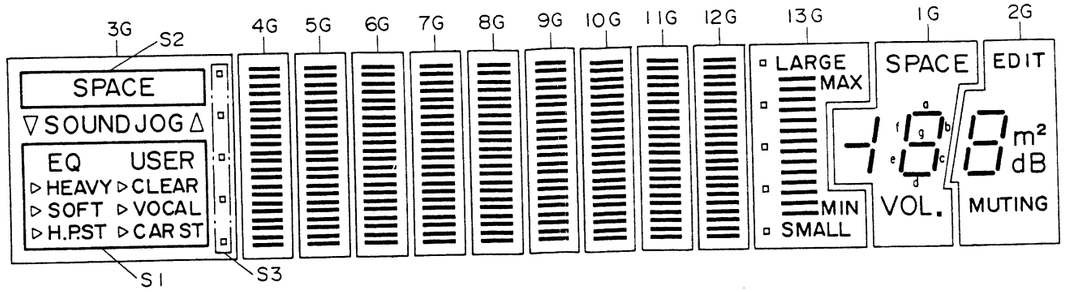


(Front View)

SU-CH7

■ DESCRIPTION OF FL PANEL

●Grid assignment



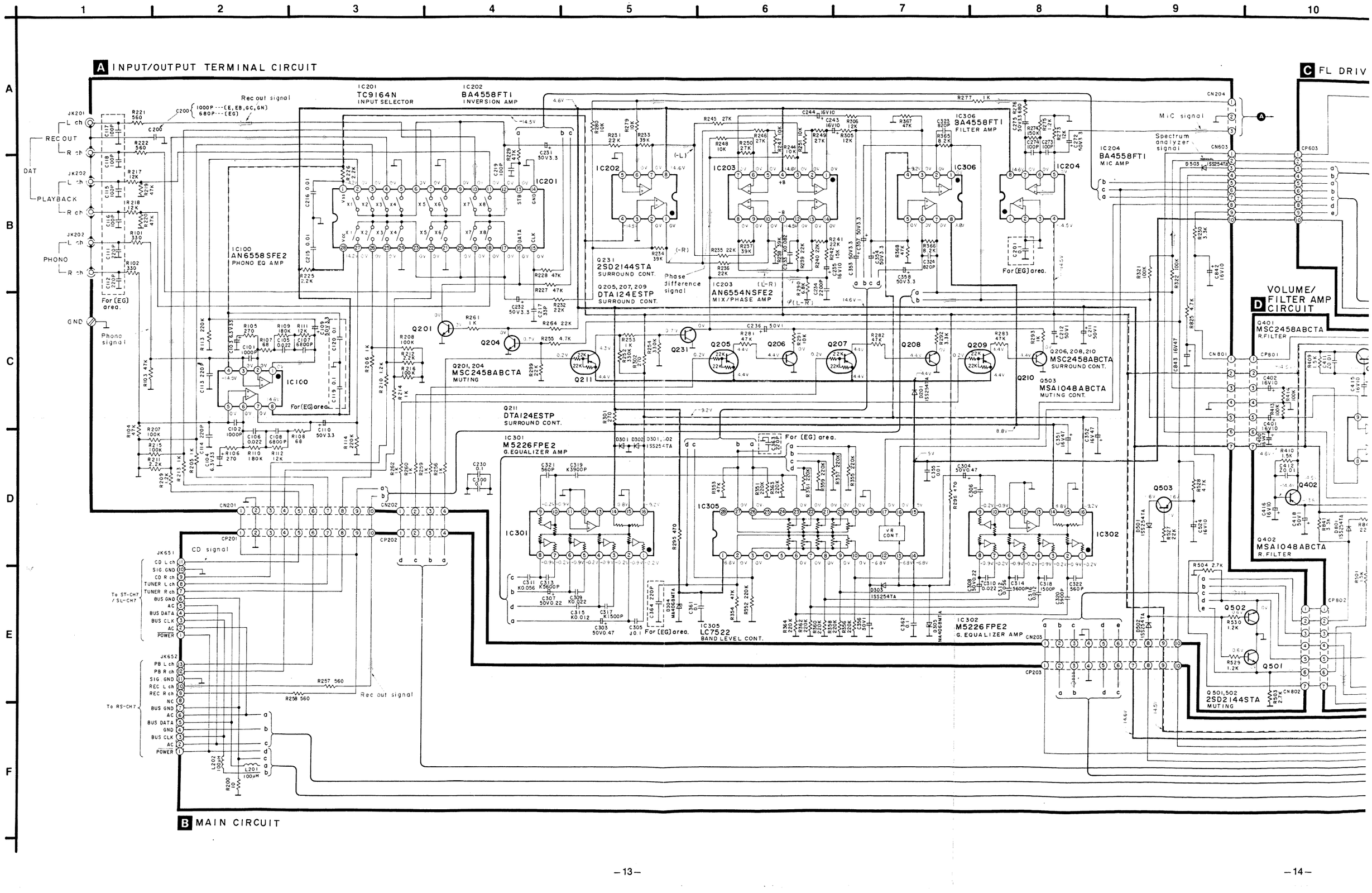
●Pin connection

Pin No.	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
Connection	F2	F2	NP	NP	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	NP	NP	NP	NP	NP	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G	13G	NP	NP	F1	F1

●Anode connection

	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G	13G
P1	a	a	▷ (HEAVY)	B8	B8	B8	B8	B8	B8	B8	B8	B8	B7
P2	b	b	▷ (CLEAR)	B7	B7	B7	B7	B7	B7	B7	B7	B7	B6
P3	c	c	▷ (H.P.ST)	B4	B4	B4	B4	B4	B4	B4	B4	B4	B3
P4	d	d	S1	B2	B2	B2	B2	B2	B2	B2	B2	B2	B1
P5	e	e	▷ (CAR ST)	B3	B3	B3	B3	B3	B3	B3	B3	B3	B2
P6	f	f	▷ (SOFT)	B6	B6	B6	B6	B6	B6	B6	B6	B6	B5
P7	g	g	▷ (VOCAL)	B5	B5	B5	B5	B5	B5	B5	B5	B5	B4
P8	|	dB	S2	B1	B1	B1	B1	B1	B1	B1	B1	B1	–
P9	–	m²	USER	B9	B9	B9	B9	B9	B9	B9	B9	B9	MAX MINI
P10	SPACE	EDIT	△	B10	B10	B10	B10	B10	B10	B10	B10	B10	LARGE SMALL
P11	VOL.	MUTING	▽	B11	B11	B11	B11	B11	B11	B11	B11	B11	–
P12	–	–	SPACE SOUND JOG EQ HEAVY CLEAR SOFT VOCAL H.P.ST CAR ST S3	–	–	–	–	–	–	–	–	–	S4

■ SCHEMATIC DIAGRAM (Parts list on pages 30~35.)



7 8 9 10 11 12 13 14 15 16

C FL DRIVE CIRCUIT

D VOLUME/ FILTER AMP CIRCUIT

IC306 BA4558FTI FILTER AMP

IC204 BA4558FTI MIC AMP

MIC signal

Spectrum analyzer signal

IC304 BA4558FTI BAND PASS FILTER AMP

IC303 AN6554NSFE2 BAND PASS FILTER AMP

Q601 DTA124ESTP POWER SUPPLY

IC601 M50945-083SP MICRO COMPUTER

Super bass signal

Q207 Q208 Q209 Q206,208,210 MSC2458ABCTA SURROUND CONT.

Q210 Q503 MSA1048ABCTA MUTING CONT.

IC401 M5283P E.VOLUME(ATTENUATOR)

Q401 MSC2458ABCTA R.FILTER

Q402 MSA1048ABCTA R.FILTER

IC402 BA4558FTI BUFFER AMP

IC801 AN6554NSFE2 SUPER BASS AMP

IC804 AN6554NSFE2 FILTER AMP

Q813,814 2SD2144STA S.BASS DRIVE

Q812 DTA114ESTP S.BASS DRIVE

IC603 BU2040F-T2 DATA SELECTOR

IC302 M5226FPE2 G.EQUALIZER AMP

IC805 BA4558FTI FILTER AMP

Q501,502 2SD2144STA MUTING

Q801~804 2SJ40CDTA SWITCHING

Q801 Q802 Q803 Q804

IC803 BA4558FTI BUFFER AMP

Q815,816 MSC2458ABCTA MUTING

Q817 DTA114ESTP MUTING CONT.

Q811 DTC124ESTP S.BASS DRIVE

Highone speaker drive signal

For (EG) area.

VR CONT.

VCA CONT.

E OPERATIO

13 14 15 16 17 18 19 20 21 22

IC303
AN6554NSFE2
BAND PASS
FILTER AMP

IC601
M50945-083SP
MICRO COMPUTER

Q601
DTA124ESTP
POWER SUPPLY

FL601(RSL0079-F)
FL DISPLAY

Q609
MSC2458ABCTA
FL DRIVE

Q615
2SB621AQRSTA
REGULATOR

VR601
(VOLUME)

VR602
(SOUND JOG)

Q602
DTC124ESTP
RESET.

IC602
BA4558FTI
VCA DRIVE

X601
(4.19MHz)

Super bass signal

IC402
BA4558FTI
BUFFER AMP

IC801
AN6554NSFE2
SUPER BASS AMP

IC804
AN6554NSFE2
FILTER AMP

Q813,814
2SD2144STA
S.BASS DRIVE

Q812
DTA114ESTP
S.BASS DRIVE

Highfone
speaker
drive signal

IC803
BA4558FTI
BUFFER AMP

Q815,816
MSC2458ABCTA
MUTING

Q817
DTA114ESTP
MUTING CONT.

Q811
DTC124ESTP
S.BASS DRIVE

IC603
BU2040F-T2
DATA SELECTOR

Q603
DTC124ESTP
LED DRIVE

D603(SUPER BASS)

Q604,610,611,613
DTA124ESTP
LED DRIVE

Q607,608
MSC2458ABCTA
BUS LINE DRIVE

Q605,606
DTC144ESTP
BUS LINE DRIVE

E OPERATION CIRCUIT

(To page 17.)

23 24 25 26 27 28 29 30 31 32

I THERMISTOR CIRCUIT

F POWER CONTROL CIRCUIT

Q951 MSC2458ABCTA MUTING CONT.

Q952 MSA1048ABCTA MUTING CONT.

Short: power "on"

IC501 SVI3101B POWER AMP (LOW SP DRIVE)

IC502 LA4282 POWER AMP (HIGH SP DRIVE)

Q555 MSC2458ABCTA SWITCHING

Q551, 552 2SD2144STA MUTING

Q553 MSA1048ABCTA MUTING CONT.

Q574 KSB564ACYGTA MOTOR DRIVE

Q572 MSC2458ABCTA MOTOR DRIVE

Q571 MSA1048ABCTA MOTOR DRIVE

Q573 DTC124ESTP MOTOR DRIVE

Q654 DTA124ESTP POWER SUPPLY CONT.

Q652, 653 DTC124ESTP POWER SUPPLY CONT.

Q554 DTC114ESTP POWER SUPPLY CONT.

Q706 KSD471ACYGTA REGULATOR

IC701 AN78L05TA REGULATOR

Q707 DTA124ESTP SWITCHING (HOLD)

Q702 2SB1185EF REGULATOR

Q708 MSC2458ABCTA POWER DOWN DET.

Q701 2SD1762EF REGULATOR

Q703 MSC2458ABCTA SWITCHING

Q704 MSC2458ABCTA RELAY DRIVE

For [EG] area.

SPEAKERS (SB-CH7)

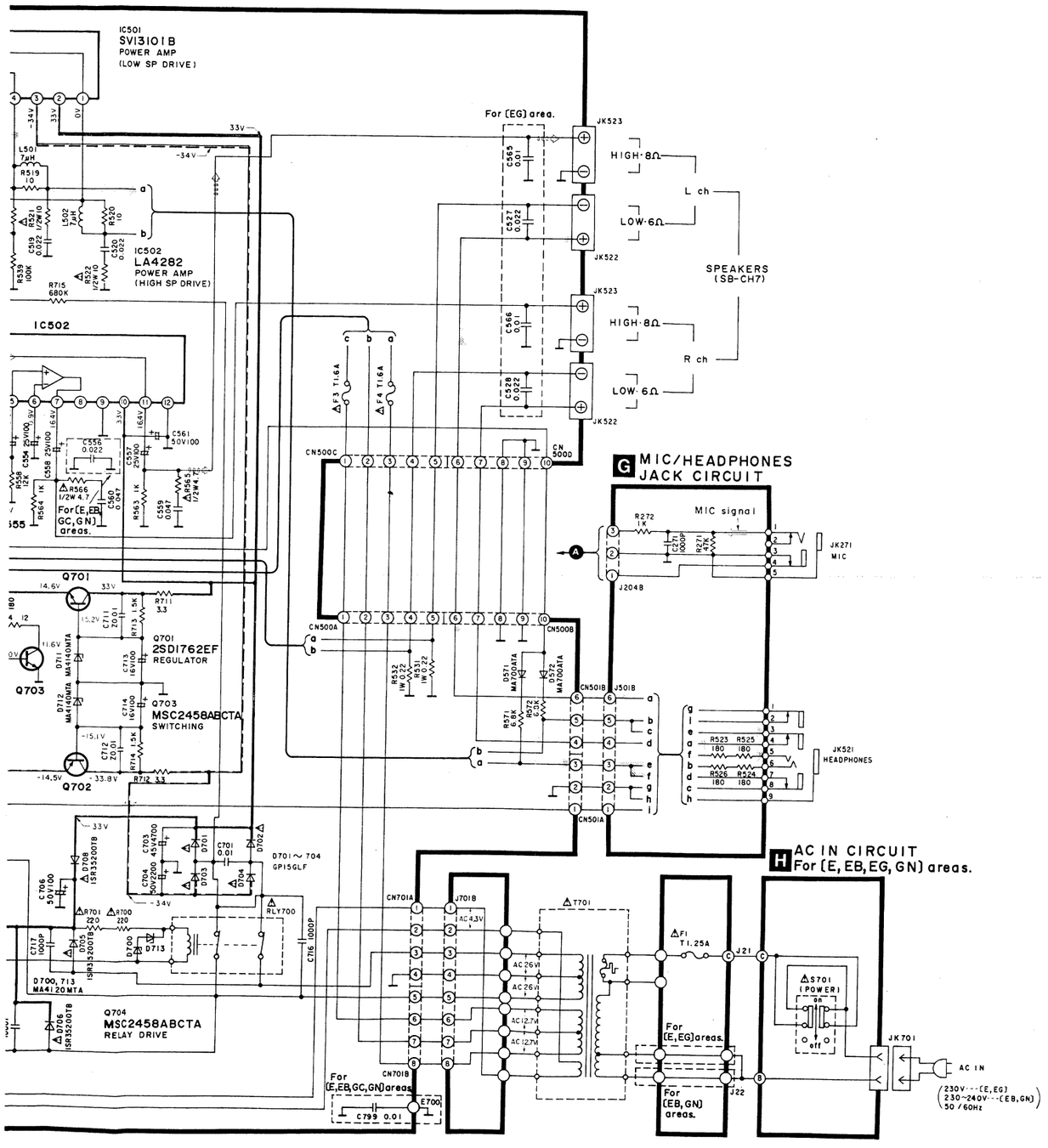
G MIC/HEADPHONES JACK CIRCUIT

H AC IN CIRCUIT For [E, EB, EG, GN] areas.

AC IN (230V---[E, EG] 230~240V---[EB, GN] 50/60Hz)

(To page 16.)

28 29 30 31 32 33 34 35 36 37



Notes:

- ●S601~605 : Input selector switch.
  (●S601: TAPE, S602: PHONO, S603: CD, S604: TUNER, S605: DAT)
- ●S606 : Graphic EQ switch (ON/FLAT).
- ●S607 : Equalization mode select switch (MODE-RECALL).
- ●S608 : Spectrum mode select switch (-SPECTRUM MODE—DEMO).
- ●S609 : Ambience enhancement switch (SPACE).
- ●S610 : Super bass switch (SUPER BASS).
- ●S611 : Volume preset switch (VOL. PRESET).
- ●S700 : Voltage adjustment switch in "110~127 V" position. (110~127 V/220~240 V) for (GC) area only.
- ●S701 : Power switch in "ON" position.

- ●Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
- ●Important safety notice:
  Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
- ●**This schematic diagram may be modified at any time with the development of new technology.**

: Positive voltage line
: Negative voltage line
: Super bass signal line
: Hightone speaker drive signal line
: CD/PHONO signal (L ch) Line
: Rec out signal (L ch) Line
: Spectrum analyzer signal Line
: MIC signal Line
: Phase difference signal Line

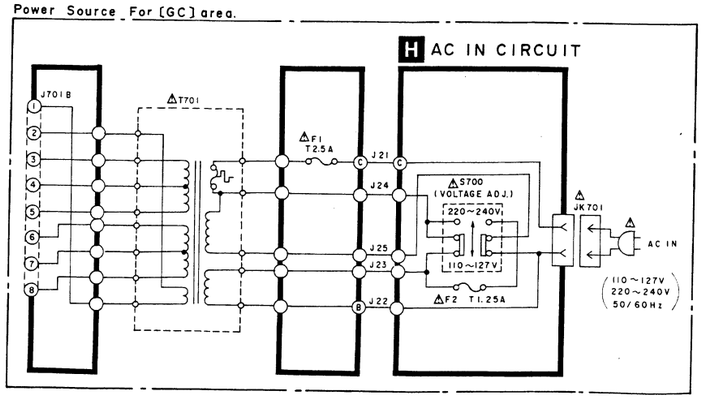
Caution!

- ●IC and LSI are sensitive to static electricity.
  Secondary trouble can be prevented by taking care during repair.
- ●Cover the parts boxes made of plastics with aluminum foil.
- ●Ground the soldering iron.
- ●Put a conductive mat on the work table.
- ●Do not touch the legs of IC or LSI with the fingers directly.

- ●The supply part number is described alone in the replacement parts list.

Ref No.	Production Parts No.	Supply Parts No.
IC402 IC403 IC1002	M5238P	M5238P-1

Power Source For [GC] area.



■ PRINTED CIRCUIT BOARDS (Parts list on pages 30~35.)

1 2 3 4 5 6 7 8 9 10

A B C D E F

To SL-CH7/ST-CH7

To RS-CH7

B MAIN P.C.B.

SPEAKERS(SB-CH7)

(HIGH·8Ω) (LOW·6Ω)

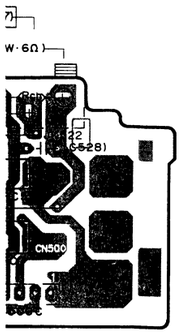
(C) Capacitors indicated by area used only in the EG(Germany/Italy) area.

VOLUME

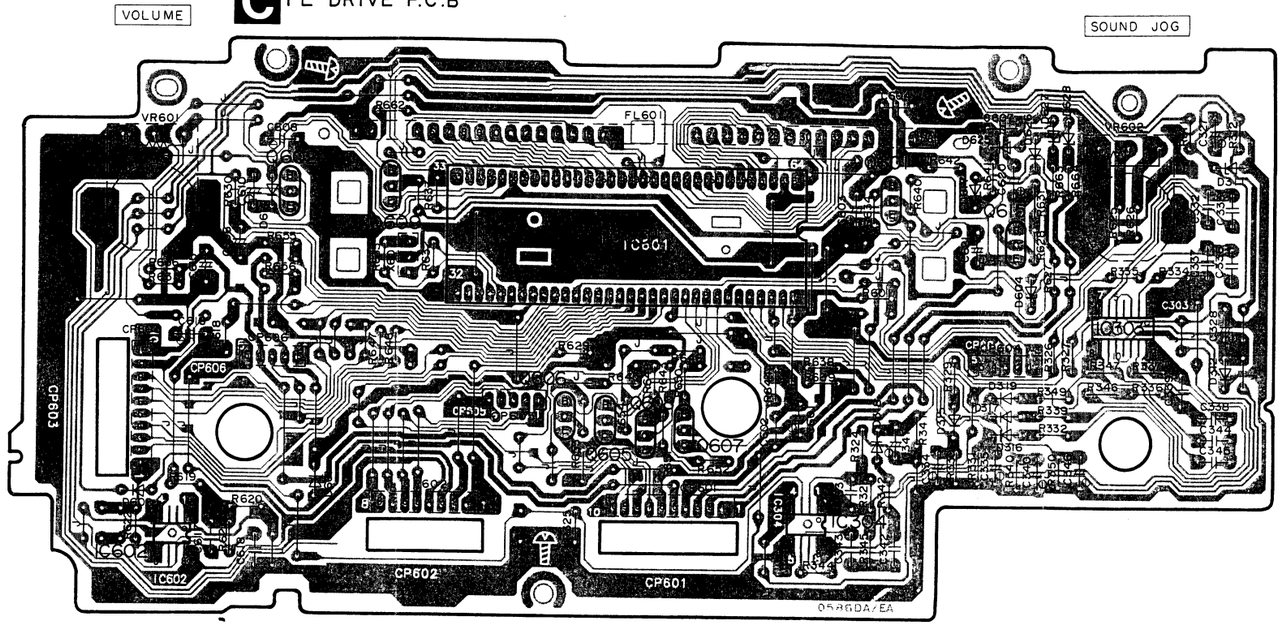
C FL DRIVE P.C.B

D VOLUME/FILTER AMP P.C.B.

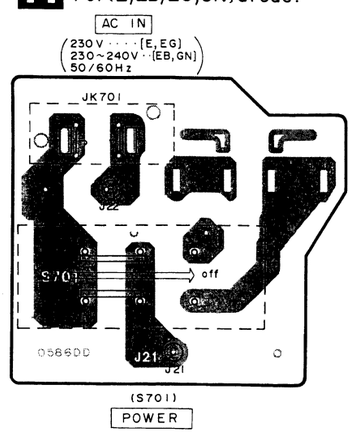
6 7 8 9 10 11 12 13 14 15

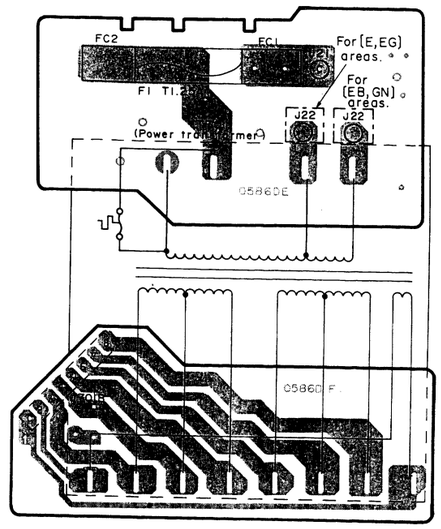


C FL DRIVE P.C.B

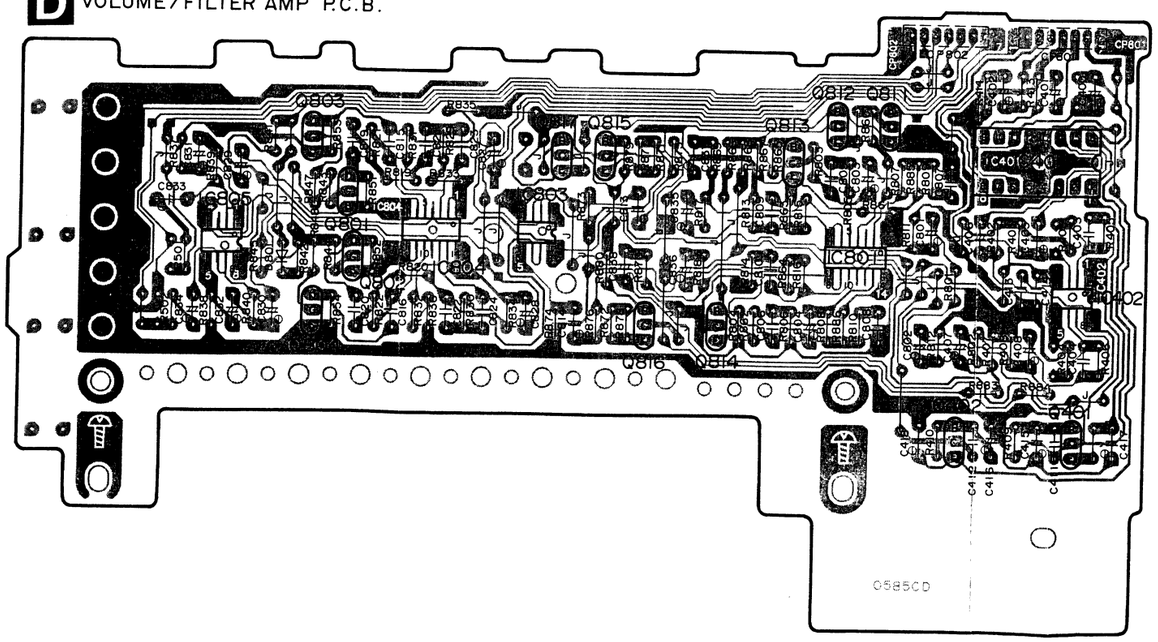


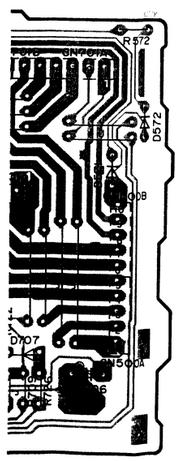
H AC IN P.C.B.
For (E,EB,EG,GN) areas.



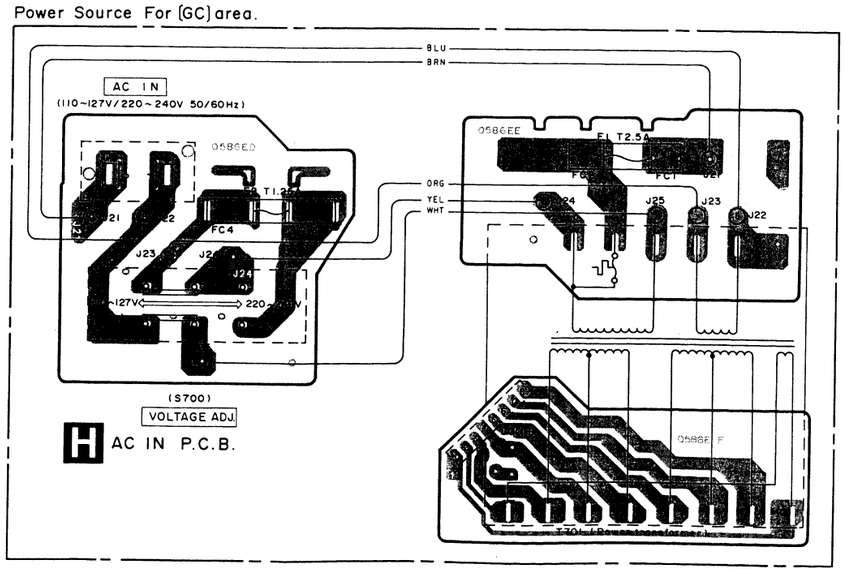


D VOLUME/FILTER AMP P.C.B.



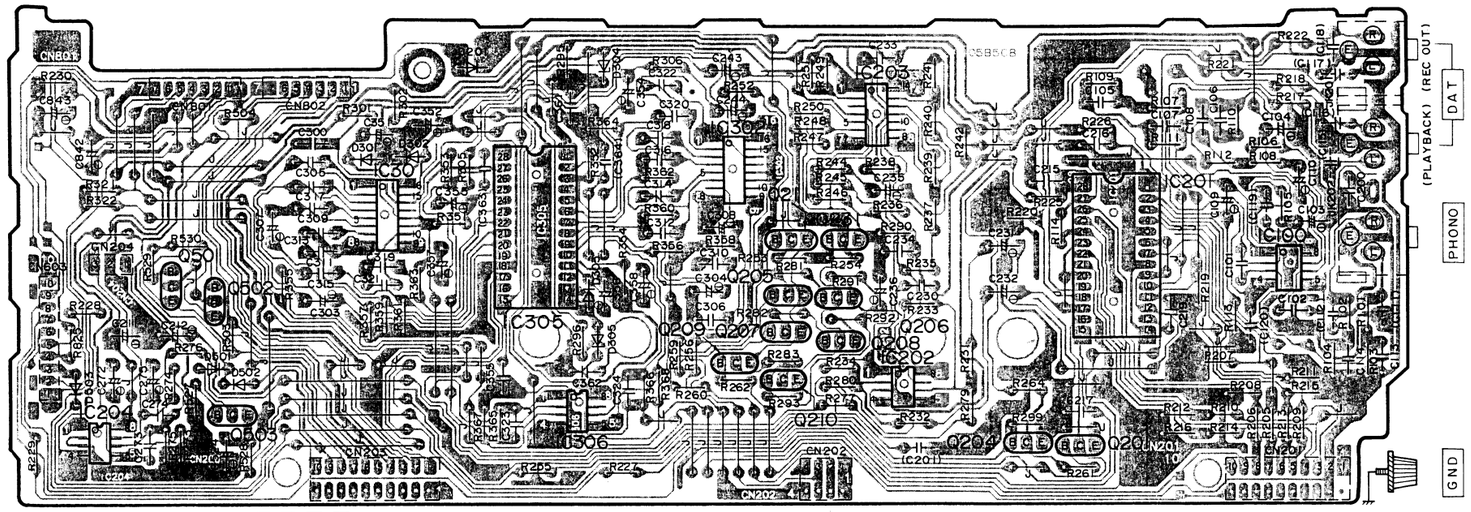


Power Source For (GC) area.

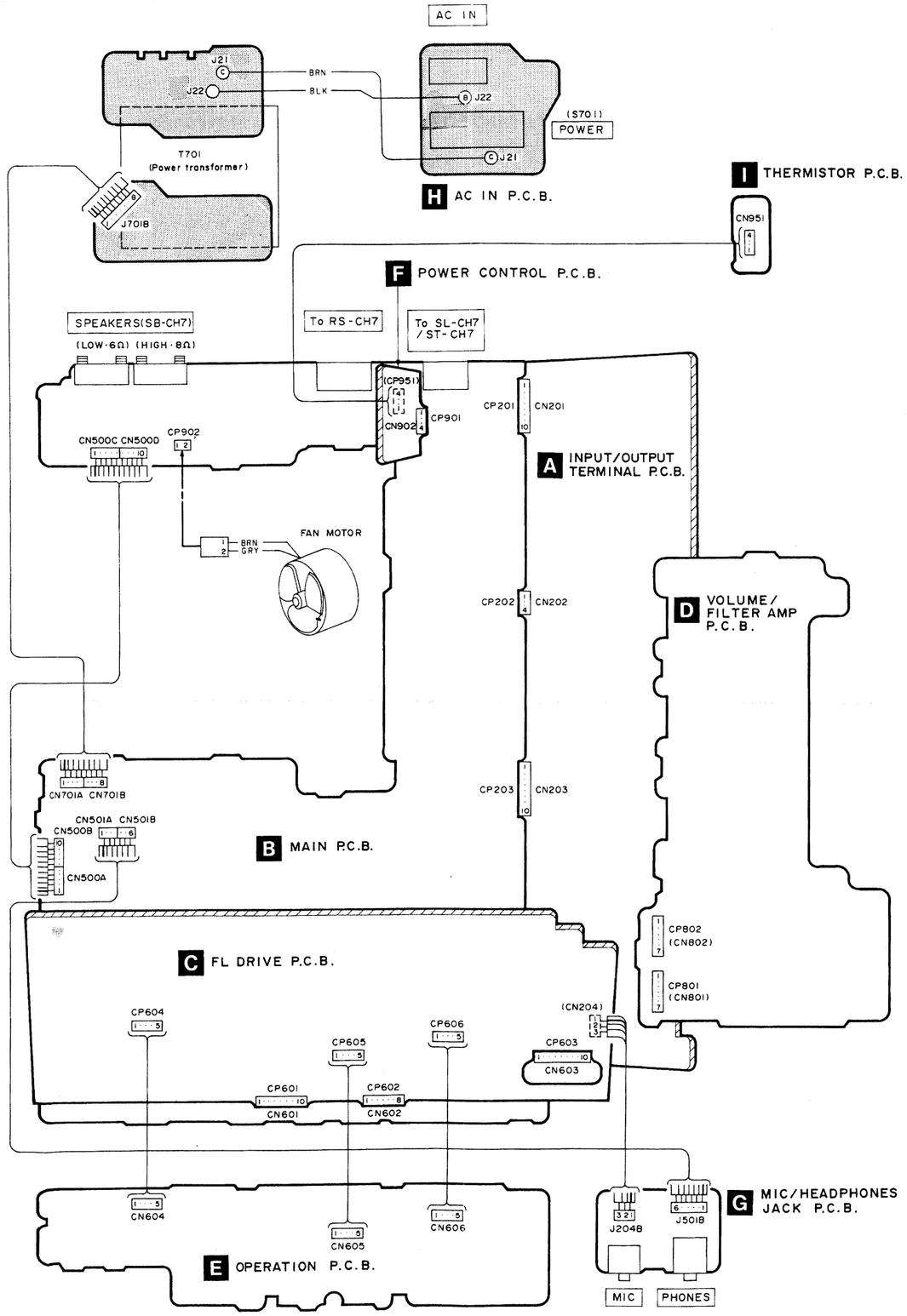


16 17 18 19 20 21 22 23 24 25

A INPUT/OUTPUT TERMINAL P.C.B.



■ WIRING CONNECTION DIAGRAM



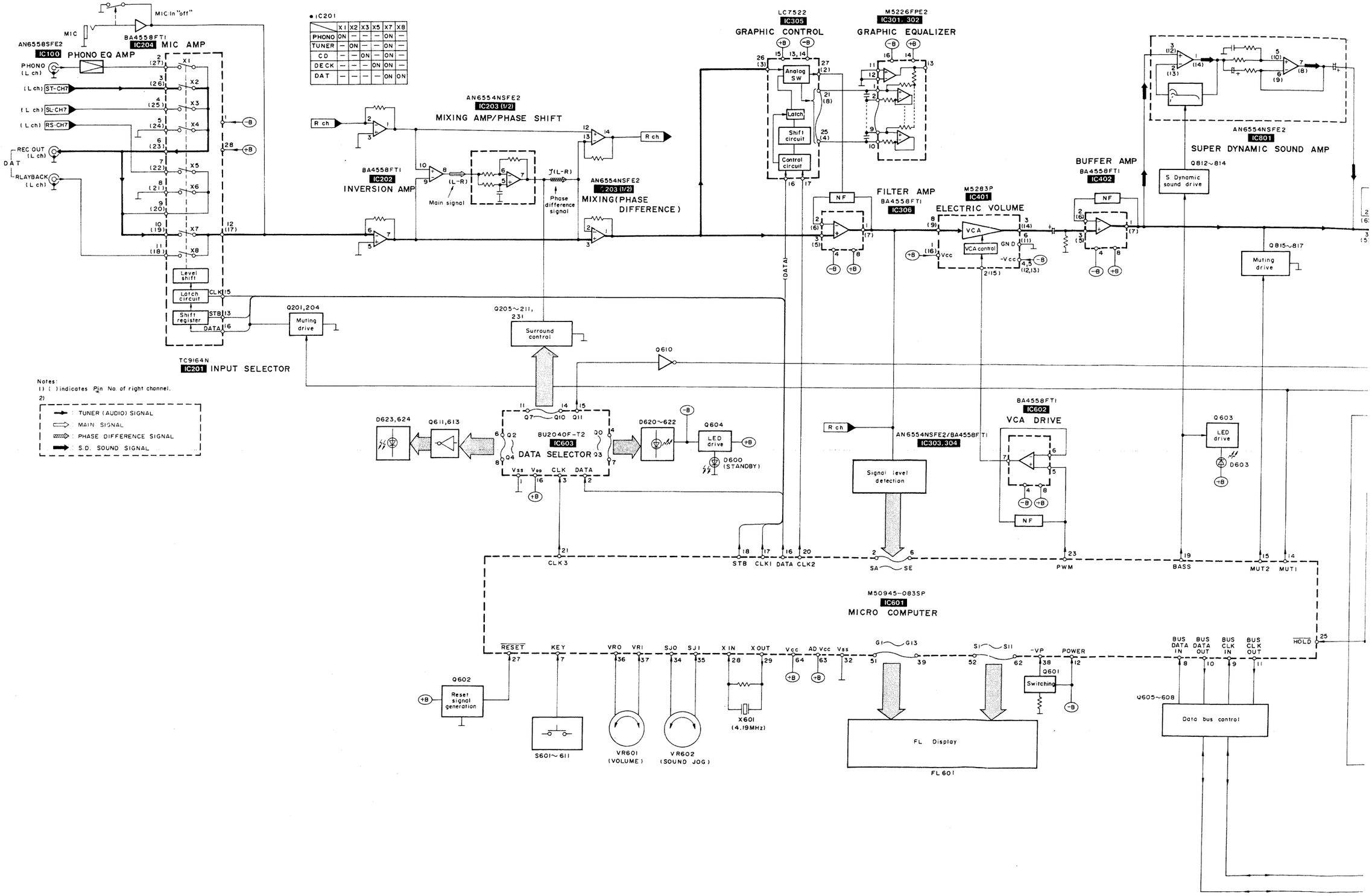
■ FUNCTIONS OF IC TERMINALS

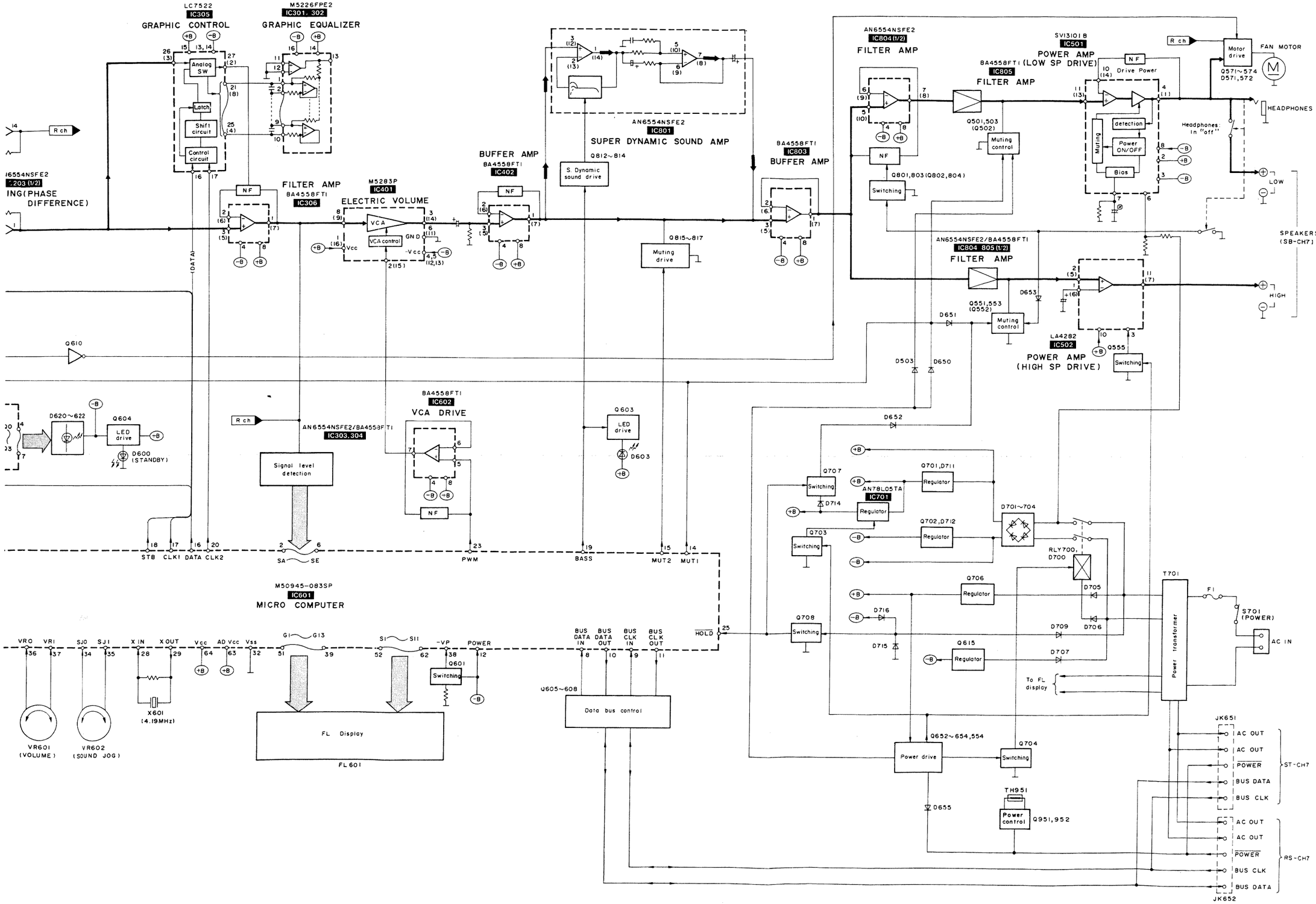
•IC601 (M5D945-083SP)

Pin No.	Mark	I/O Division	Function
1	VREF	I	Connected to A/D converter reference voltage VCC
2 ~ 6	SA ~ SE	I	Spectrum analyser input A~E A/D input
7	KEY	I	Key input
8	BUS DATA IN	I	External control data signal input
9	BUS CLK IN	I	External control clock signal input
10	BUS DATA OUT	O	External control data signal output
11	BUS CLK OUT	O	External control clock signal output
12	POWER	I	Input for power ON/OFF detection
13	$\overline{VCR}$	O	Image signal switch output
14	MUT1	O	Muting output "H" level when mute is on mode
15	MUT 2	O	–10 dB muting output
16	DATA	O	Serial data output
17	CLK1	O	Clock output extracted from serial data
18	STB	O	Serial clock strobe
19	BASS	O	Super bass indicator motor Super bass sound control signal output
20	CLK2	O	Clock output for graphic equalizer and extracted serial data
21	CLK3	O	FL display output

Pin No.	Mark	I/O Division	Function
22 • 24	CS1 • CS2	—	Connected GND
23	PWM	I	Electric volume control PWM output
25	$\overline{HOLD}$	I	Hold mode detection signal input
26	G	—	Connected to GND
27	$\overline{RESET}$	I	Reset input
28 • 29	X•IN X•OUT	I/O	Clock input–output Connected to oscillator (X601) (4.19 kHz)
30	XC IN	I	Connectd to GND
31	XC OUT	O	Not connected
32	VSS	—	Connected to GND
33	NC	—	Not connected
34 • 35	SJ0 • SJ1	I	Sound jog input
36 • 37	VR0 • VR1	I	Encoder VR input
38	– VP	I	Pull down voltage input for FL
39 ~ 51	G13 ~ G1	O	Grid output for FL
52 ~ 62	S1 ~ S11	O	Segment output for FL
63	AD VCC	I	A/D converter reference voltage
64	VCC	I	Power supply

■ BLOCK DIAGRAM




LC7522
IC305
GRAPHIC CONTROL
M5226FPE2
IC301, 302
GRAPHIC EQUALIZER
Analog SW
Latch
Shift circuit
Control circuit
R ch
AN6554NSFE2
IC801
SUPER DYNAMIC SOUND AMP
S. Dynamic sound drive
Q812~814
BUFFER AMP
BA4558FTI
IC402
BA4558FTI
IC803
BUFFER AMP
AN6554NSFE2
IC804(1/2)
FILTER AMP
SVI3101B
IC501
POWER AMP
BA4558FTI (LOW SP DRIVE)
IC805
FILTER AMP
Motor drive
FAN MOTOR
0571~574
0571,572
HEADPHONES
Headphones: In "off"
LOW
SPEAKERS (SB-CH7)
HIGH
Q501,503 (Q502)
Muting control
Q801,803 (Q802,804)
Switching
Drive Power
detection
Power ON/OFF
Bias
Muting
AN6554NSFE2/BA4558FTI
IC804 805(1/2)
FILTER AMP
Q551,553 (Q552)
D651
D653
D503
D650
D652
LA4282
IC502
POWER AMP (HIGH SP DRIVE)
Q555
Switching
M5283P
IC401
ELECTRIC VOLUME
VCA
VCA control
GND
Vcc
-Vcc
FILTER AMP
BA4558FTI
IC306
NF
(DATA)
Q610
D620~622
Q604
LED drive
D600 (STANDBY)
BA4558FTI
IC602
VCA DRIVE
AN6554NSFE2/BA4558FTI
IC303,304
Signal level detection
Q603
LED drive
D603
STB CLK1 DATA CLK2
SA ~ SE
PWM
BASS
MUT2
MUT1
M50945-083SP
IC601
MICRO COMPUTER
VR0 VR1 SJ0 SJ1 XIN XOUT Vcc AD Vcc Vss G1~G13 S1~S11 -VP POWER
X601 (4.19MHz)
VR601 (VOLUME)
VR602 (SOUND JOG)
FL Display
FL601
HOLD
BUS DATA IN
BUS DATA OUT
BUS CLK IN
BUS CLK OUT
Q605~608
Data bus control
Q601
Switching
Q707
Switching
Q701,D711
Regulator
AN78L05TA
IC701
Regulator
D714
Q703
Switching
Q702,D712
Regulator
D701~704
RLY700, D700
Q706
Regulator
D705
Q708
Switching
D716
D715
D709
D706
D707
Q615
Regulator
To FL display
T701
Power transformer
F1
S701 (POWER)
AC IN
Q652~654,554
Power drive
Q704
Switching
TH951
Power control
Q951,952
D655
JK651
AC OUT
AC OUT
POWER
BUS DATA
BUS CLK
ST-CH7
AC OUT
AC OUT
POWER
BUS CLK
BUS DATA
RS-CH7
JK652

■ REPLACEMENT PARTS LIST

Notes : * Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
* The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.
* Remote Control Ass'y:
Supply period for three years from termination of production.

Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)	
IC100	AN6558SFE2	I. C, PHONO EQ. AMP.	
IC201	TC9164N	I. C, INPUT SELECTOR	
IC202	SVIBA4558F	I. C, INVERSION AMP.	
IC203	AN6554NSFE2	I. C, MIX/PHASE AMP.	
IC204	SVIBA4558F	I. C, MIC AMP.	
IC301, 302	M5226FPE2	I. C, G. EQ AMP.	
IC303	AN6554NSFE2	I. C, B. P. F. AMP.	
IC304	SVIBA4558F	I. C, B. P. F. AMP.	
IC305	LC7522	I. C, BAND LEVEL CONT.	
IC306	SVIBA4558F	I. C, FILTER AMP.	
IC401	M5283P	I. C, E. VOLUME	
IC402	SVIBA4558F	I. C, BUFFER AMP.	
IC501	SVI3101B	I. C, POWER AMP.	
IC502	LA4282	I. C, POWER AMP.	
IC601	M50945-083SP	I. C, MICRO COMPUTER	
IC602	SVIBA4558F	I. C, VCA DRIVE	
IC603	BU2040F-T2	I. C, DATA SELECTOR	
IC701	AN78L05TA	I. C, REGULATOR	
IC801	AN6554NSFE2	I. C, SUPER BASS AMP.	
IC803	SVIBA4558F	I. C, BUFFER AMP.	
IC804	AN6554NSFE2	I. C, FILTER AMP.	
IC805	SVIBA4558F	I. C, FILTER AMP.	
		TRANSISTOR(S)	
Q201	MSC2458ABCTA	TRANSISTOR	
Q204	MSC2458ABCTA	TRANSISTOR	
Q205	DTA124ESTP	TRANSISTOR	
Q206	MSC2458ABCTA	TRANSISTOR	
Q207	DTA124ESTP	TRANSISTOR	
Q208	MSC2458ABCTA	TRANSISTOR	
Q209	DTA124ESTP	TRANSISTOR	
Q210	MSC2458ABCTA	TRANSISTOR	
Q211	DTA124ESTP	TRANSISTOR	
Q231	2SD2144S	TRANSISTOR	
Q401	MSC2458ABCTA	TRANSISTOR	
Q402	MSA1048ABCTA	TRANSISTOR	
Q501, 502	2SD2144S	TRANSISTOR	
Q503	MSA1048ABCTA	TRANSISTOR	
Q551, 552	2SD2144S	TRANSISTOR	
Q553	MSA1048ABCTA	TRANSISTOR	
Q554	DTC114ESTP	TRANSISTOR	
Q555	MSC2458ABCTA	TRANSISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
Q571	MSA1048ABCTA	TRANSISTOR	
Q572	MSC2458ABCTA	TRANSISTOR	
Q573	DTC124EST	TRANSISTOR	
Q574	KSB564ACYGTA	TRANSISTOR	
Q601	DTA124ESTP	TRANSISTOR	
Q602, 603	DTC124EST	TRANSISTOR	
Q604	DTA124ESTP	TRANSISTOR	
Q605, 606	DTC144EKT96	TRANSISTOR	
Q607-609	MSC2458ABCTA	TRANSISTOR	
Q610, 611	DTA124ESTP	TRANSISTOR	
Q613	DTA124ESTP	TRANSISTOR	
Q615	2SB621A-R	TRANSISTOR	
Q652, 653	DTC124EST	TRANSISTOR	
Q654	DTA124ESTP	TRANSISTOR	
Q701	2SD1762EF	TRANSISTOR	
Q702	2SB1185EF	TRANSISTOR	
Q703, 704	MSC2458ABCTA	TRANSISTOR	
Q706	KSD471ACYGTA	TRANSISTOR	
Q707	DTA124ESTP	TRANSISTOR	
Q708	MSC2458ABCTA	TRANSISTOR	
Q801-804	2SJ40CDTA	TRANSISTOR	
Q811	DTC124EST	TRANSISTOR	
Q812	DTA114ESTP	TRANSISTOR	
Q813, 814	2SD2144S	TRANSISTOR	
Q815, 816	MSC2458ABCTA	TRANSISTOR	
Q817	DTA114ESTP	TRANSISTOR	
Q951	MSC2458ABCTA	TRANSISTOR	
Q952	MSA1048ABCTA	TRANSISTOR	
		DIODE(S)	
D201	1SS254TA	DIODE	
D301-303	1SS254TA	DIODE	
D304, 305	MA4068M	DIODE	
D311, 312	MA4068M	DIODE	
D315, 316	MA700	DIODE	
D317-319	1SS254TA	DIODE	
D501-503	1SS254TA	DIODE	
D571, 572	MA700	DIODE	
D573	MA4033TA	DIODE	
D574	1SR352007B	DIODE	⚠
D575	MA700	DIODE	
D576	MA4051MTA	DIODE	
D600	LN873RP-LS	DIODE	
D601	1SS254TA	DIODE	
D602	1SS291TA	DIODE	

Ref. No.	Part No.	Part Name & Description	Remarks
D603	LN024428P	DIODE	
D604	MA4300M	DIODE	
D614	1SS254TA	DIODE	
D617	MA4043M	DIODE	(E, EB, EG, GN)
D617	MA4030LTA	DIODE	(GC)
D620-622	LN873RP-LS	DIODE	
D623, 624	LN173WP38	DIODE	
D625, 626	1SS254TA	DIODE	
D627, 628	MA4030LTA	DIODE	
D650-653	1SS254TA	DIODE	
D655	1SS254TA	DIODE	
D700	MA4120	DIODE	
D701-704	GP15GLF	DIODE	⚠
D705-708	1SR35200TB	DIODE	⚠
D709	1SS254TA	DIODE	
D710	MA4062MTA	DIODE	
D711, 712	MA4140M	DIODE	
D713	MA4120	DIODE	
D714-716	1SS254TA	DIODE	
D801	1SS254TA	DIODE	
D951	1SS254TA	DIODE	
D952	MA4051MTA	DIODE	
		VARIABLE RESISTOR(S)	
VR601	EVQWQAF2524B	V. R, VOLUME CONTROL	
VR602	EVQWQAF2524B	V, R, SOUND JOG	
		THERMISTOR(S)	
TH951	SRPBD47101	THERMISTOR	
		COIL(S)	
L201, 202	ELEXT101KA9	COIL	
L501, 502	SLQY07G-40	COIL	
		TRANSFORMER(S)	
T701	RTP1M5B006	POWER TRANSFORMER	⚠ (E, EB, EG, GN)
T701	RTP1M5E010	POWER TRANSFORMER	⚠ (GC)
		OSCILLATOR(S)	
X601	EFOGC4194T4	OSCILLATOR	
		DISPLAY	
FL601	RSL0079-F	DISPLAY	
		FUSE(S)	

Ref. No.	Part No.	Part Name & Description	Remarks
F1	XBA2C12TB0S	FUSE, 250V 1. 25A	⚠ (E, EB, EG, GN)
F1	XBA2C25TB0	FUSE, 250V 2A	⚠ (GC)
F3, 4	XBA2C16TB0	FUSE, 250V 1. 6A	⚠
		SWITCH(ES)	
S601	EVQ21405R	SW, TAPE	
S602	EVQ21405R	SW, PHONO	
S603	EVQ21405R	SW, CD	
S604	EVQ21405R	SW, TUNER	
S605	EVQ21405R	SW, DAT	
S606	EVQ21405R	SW, G. EQ. ON/FLAT	
S607	EVQ21405R	SW, G. EQ. MODE	
S608	EVQ21405R	SW, SPE. MODE	
S609	EVQ21405R	SW, SPACE	
S610	EVQ21405R	SW, S. BASS	
S611	EVQ21405R	SW, V. PRESET	
S700	ESD26200A	SW, VOLTAGE ADJ.	⚠ (GC)
S701	RSS3B005S	SW, POWER	⚠ (E, EB, EG, GN)
		JACK(S)	
JK201	SJF3068N	CONNECTOR(2P)	
JK202	SJF3069-5N	CONNECTOR(4P)	
JK271	RJJ1D25ZA-C	JACK, MIC	
JK521	RJJ39T01	HEADPHONES JACK	
JK522	RJR0054BM	SPEAKER TERMINAL	
JK523	RJR0054CM	SPEAKER TERMINAL	
JK651	RJT055K011-1	CONTROL TERMINAL	
JK652	RJT055B013-1	CONTROL TERMINAL	
JK701	SJS9231-1B	AC INLET	⚠ (E, EB, EG, GC)
JK701	SJS9234B	AC INLET	⚠ (GN)
		CONNECTOR(S)	
CN201	RJU057W010	SOCKET(10P)	
CN202	RJU057W004	SOCKET(4P)	
CN203	RJU057W010	SOCKET(10P)	
CN204	RJS1A1703	SOCKET(3P)	
CN601	RJU003K010M1	SOCKET(10P)	
CN602	RJU003K008M1	SOCKET(8P)	
CN603	RJU003K010M1	SOCKET(10P)	
CN604-606	SJS50581BB	SOCKET(5P)	
CN801, 802	RJU005W007	SOCKET(7P)	
CN901	RJU057W004	SOCKET(4P)	
CN951	RJU057W004	SOCKET(4P)	
CN500A	RJS1A1705	SOCKET(5P)	
CN501A	RJS1A1703	SOCKET(3P)	
CN701A	RJS1A1704	SOCKET(4P)	
CN500B	RJS1A1705	SOCKET(5P)	
CN501B	RJS1A1703	SOCKET(3P)	
CN701B	RJS1A1704	SOCKET(4P)	

Ref. No.	Part No.	Part Name & Description	Remarks
CN500C	RJS1A1705	SOCKET(5P)	
CN500D	RJS1A1705	SOCKET(5P)	
CP201	RJT057W010-1	CONNECTOR(10P)	
CP202	RJT057W004-1	CONNECTOR(4P)	
CP203	RJT057W010-1	CONNECTOR(10P)	
CP601	RJT003K010M1	CONNECTOR(10P)	
CP602	RJT003K008M1	CONNECTOR(8P)	
CP603	RJT003K010M1	CONNECTOR(10P)	
CP604-606	SJT30549BB1	CONNECTOR(5P)	
CP801, 802	RJT005W007S	CONNECTOR(7P)	
CP901	RJT057W004-1	CONNECTOR(4P)	
CP902	SJT3213	CONNECTOR(2P)	
CP951	RJT057W004-1	CONNECTOR(4P)	
		FUSE HOLDER(S)	
FC1, 2	EYF52BC	FUSE HOLDER	⚠
FC3, 4	SJT388	FUSE HOLDER	⚠(GC)
FC5-8	EYF52BC	FUSE HOLDER	⚠
		RELAY	
RLY700	SSY134	RELAY	⚠

Notes : * Capacity valuse are in microfarads (uF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)
* Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM) , 1M=1,000k (OHM)

Ref. No.	Part No.	Values & Remarks
		RESISTORS
R101, 102	ERDS2TJ331	1/4W 330
R103, 104	ERDS2TJ473	1/4W 47K
R105, 106	ERDS2TJ271	1/4W 270
R107, 108	ERDS2TJ680T	1/4W 68
R109, 110	ERDS2TJ184T	1/4W 180K
R111, 112	ERDS2TJ123	1/4W 12K
R113, 114	ERDS2TJ224T	1/4W 220K
R200	ERDS2TJ100	1/4W 10
R205, 206	ERDS2TJ102	1/4W 1K
R207, 208	ERDS2TJ104	1/4W 100K
R209, 210	ERDS2TJ122	1/4W 1.2K
R211, 212	ERDS2TJ222	1/4W 2.2K
R213, 214	ERDS2TJ102	1/4W 1K
R215, 216	ERDS2TJ104	1/4W 100K
R217, 218	ERDS2TJ123	1/4W 12K
R219, 220	ERDS2TJ473	1/4W 47K
R221, 222	ERDS2TJ561	1/4W 560
R225, 226	ERDS2TJ222	1/4W 2.2K
R227-229	ERDS2TJ473	1/4W 47K
R230	ERDS2TJ332	1/4W 3.3K
R231, 232	ERDS2TJ223	1/4W 22K
R233, 234	ERDS2TJ393	1/4W 39K
R235, 236	ERDS2TJ223	1/4W 22K
R237, 238	ERDS2TJ393	1/4W 39K
R239-241	ERDS2TJ223	1/4W 22K
R242	ERDS2TJ153	1/4W 15K
R244	ERDS2TJ103	1/4W 10K
R245, 246	ERDS2TJ273	1/4W 27K
R247, 248	ERDS2TJ103	1/4W 10K
R249, 250	ERDS2TJ273	1/4W 27K
R251	ERDS2TJ103	1/4W 10K
R252	ERDS2TJ334	1/4W 330K
R253	ERDS2TJ102	1/4W 1K
R254	ERDS2TJ334	1/4W 330K
R255	ERDS2TJ472	1/4W 4.7K
R256	ERDS2TJ102	1/4W 1K
R257, 258	ERDS2TJ561	1/4W 560
R259-262	ERDS2TJ102	1/4W 1K
R264	ERDS2TJ223	1/4W 22K
R271	ERDS2TJ473	1/4W 47K
R272	ERDS2TJ102	1/4W 1K
R273	ERDS2TJ123	1/4W 12K
R274	ERDS2TJ154	1/4W 150K
R275	ERDS2TJ122	1/4W 1.2K
R276	ERDS2TJ681	1/4W 680
R277	ERDS2TJ102	1/4W 1K

Ref. No.	Part No.	Values & Remarks
R279, 280	ERDS2TJ103	1/4W 10K
R281-283	ERDS2TJ473	1/4W 47K
R290	ERDS2TJ682T	1/4W 6.8K
R291	ERDS2TJ103	1/4W 10K
R292	ERDS2TJ332	1/4W 3.3K
R293	ERDS2TJ102	1/4W 1K
R295, 296	ERDS2TJ471	1/4W 470
R299	ERDS2TJ223	1/4W 22K
R301, 302	ERDS2TJ271	1/4W 270
R305, 306	ERDS2TJ123	1/4W 12K
R311, 312	ERDS2TJ391	1/4W 390
R321, 322	ERDS2TJ104	1/4W 100K
R323	ERDS2TJ184T	1/4W 180K
R324, 325	ERDS2TJ683	1/4W 68K
R326	ERDS2TJ562	1/4W 5.6K
R327	ERDS2TJ104	1/4W 100K
R329	ERDS2TJ222	1/4W 2.2K
R330	ERDS2TJ683	1/4W 68K
R331	ERDS2TJ563	1/4W 56K
R332	ERDS2TJ332	1/4W 3.3K
R334	ERDS2TJ104	1/4W 100K
R335	ERDS2TJ682T	1/4W 6.8K
R336	ERDS2TJ822	1/4W 8.2K
R337	ERDS2TJ104	1/4W 100K
R339	ERDS2TJ272T	1/4W 2.7K
R340, 341	ERDS2TJ563	1/4W 56K
R342	ERDS2TJ272T	1/4W 2.7K
R344	ERDS2TJ104	1/4W 100K
R345	ERDS2TJ822	1/4W 8.2K
R346	ERDS2TJ183T	1/4W 18K
R347	ERDS2TJ224T	1/4W 220K
R349	ERDS2TJ272T	1/4W 2.7K
R350	ERDS2TJ563	1/4W 56K
R351, 352	ERDS2TJ224T	1/4W 220K
R353, 354	ERDS2TJ473	1/4W 47K
R355-364	ERDS2TJ224T	1/4W 220K
R365, 366	ERDS2TJ822	1/4W 8.2K
R367, 368	ERDS2TJ473	1/4W 47K
R401, 402	ERDS2TJ682T	1/4W 6.8K
R403, 404	ERDS2TJ822	1/4W 8.2K
R405, 406	ERDS2TJ104	1/4W 100K
R407-410	ERDS2TJ152	1/4W 1.5K
R413, 414	ERDS2TJ104	1/4W 100K
R501, 502	ERDS2TJ152	1/4W 1.5K
R503, 504	ERDS2TJ272T	1/4W 2.7K
R511, 512	ERDS2TJ393	1/4W 39K
R513, 514	ERDS2TJ392T	1/4W 3.9K
R515, 516	ERDS2TJ104	1/4W 100K
R517	ERDS2TJ334	1/4W 330K

Ref. No.	Part No.	Values & Remarks
R519, 520	ERDS2TJ100	1/4W 10
R521, 522	ERDS1FVJ100T	1/2W 10 ⚠
R523-526	ERDS2TJ181T	1/4W 180
R527	ERDS2TJ223	1/4W 22K
R528	ERDS2TJ472	1/4W 4.7K
R529, 530	ERDS2TJ122	1/4W 1.2K
R531, 532	ERX1SJR22E	1W 0.22
R535-540	ERDS2TJ104	1/4W 100K
R541, 542	ERDS2TJ105T	1/4W 1M
R543	ERDS2TJ470	1/4W 47
R548	ERDS2TJ224T	1/4W 220K
R549	ERDS2TJ223	1/4W 22K
R550	ERDS2TJ333	1/4W 33K
R551, 552	ERDS2TJ153	1/4W 15K
R555, 556	ERDS2TJ472	1/4W 4.7K
R557, 558	ERDS2TJ123	1/4W 12K
R559	ERDS2TJ332	1/4W 3.3K
R560	ERDS2TJ122	1/4W 1.2K
R561	ERDS2TJ271	1/4W 270
R562	ERDS2TJ222	1/4W 2.2K
R563, 564	ERDS2TJ102	1/4W 1K
R565, 566	ERDS1FVJ4R7T	1/2W 4.7 ⚠
R571, 572	ERDS2TJ682T	1/4W 6.8K
R573	ERDS2TJ330	1/4W 33
R574	ERDS2TJ152	1/4W 1.5K
R575	ERDS2TJ333	1/4W 33K
R576	ERDS2TJ153	1/4W 15K
R577	ERDS2TJ103	1/4W 10K
R578	ERDS1FVJ560T	1/2W 56 ⚠
R579	ERDS1FVJ680T	1/2W 68 ⚠
R580	ERDS2TJ473	1/4W 47K
R601	ERDS2TJ103	1/4W 10K
R602	ERDS2TJ102	1/4W 1K
R603	ERDS2TJ122	1/4W 1.2K
R604	ERDS2TJ152	1/4W 1.5K
R605	ERDS2TJ182	1/4W 1.8K
R606	ERDS2TJ222	1/4W 2.2K
R607	ERDS2TJ332	1/4W 3.3K
R608	ERDS2TJ472	1/4W 4.7K
R609	ERDS2TJ682T	1/4W 6.8K
R610	ERDS2TJ123	1/4W 12K
R611	ERDS2TJ333	1/4W 33K
R612	ERDS2TJ391	1/4W 390
R614	ERDS2TJ561	1/4W 560
R615	ERDS2TJ471	1/4W 470
R616, 617	ERDS2TJ222	1/4W 2.2K
R618	ERDS2TJ682T	1/4W 6.8K
R619	ERDS2TJ103	1/4W 10K
R620	ERDS2TJ225	1/4W 2.2M

Ref. No.	Part No.	Values & Remarks
R621	ERDS2TJ103	1/4W 10K
R622	ERDS2TJ222	1/4W 2.2K
R624	ERDS2TJ331	1/4W 330
R625, 626	ERDS2TJ153	1/4W 15K
R627	ERDS2TJ2R2T	1/4W 2.2
R628	ERDS2TJ152	1/4W 1.5K
R629	ERDS2TJ562	1/4W 5.6K
R630	ERDS2TJ224T	1/4W 220K
R631	ERDS2TJ471	1/4W 470
R632	ERDS2TJ105T	1/4W 1M
R633	ERDS2TJ102	1/4W 1K
R634	ERDS2TJ333	1/4W 33K
R635, 636	ERDS2TJ153	1/4W 15K
R637	ERDS2TJ224T	1/4W 220K
R638	ERDS2TJ222	1/4W 2.2K
R639	ERDS2TJ103	1/4W 10K
R640	ERDS2TJ224T	1/4W 220K
R641, 642	ERDS2TJ101	1/4W 100
R643, 644	ERDS2TJ223	1/4W 22K
R645, 646	ERDS2TJ470	1/4W 47
R647, 648	ERDS2TJ102	1/4W 1K
R649-652	ERDS2TJ393	1/4W 39K
R653, 654	ERDS2TJ470	1/4W 47
R655-657	ERDS2TJ102	1/4W 1K
R661	ERDS2TJ102	1/4W 1K
R662	ERDS2TJ472	1/4W 4.7K
R663, 664	ERDS2TJ2R2T	1/4W 2.2
R671	ERDS2TJ222	1/4W 2.2K
R672	ERDS2TJ103	1/4W 10K
R700, 701	ERD25FVJ221T	1/4W 220 ⚠
R702	ERDS2TJ222	1/4W 2.2K
R705	ERDS2TJ152	1/4W 1.5K
R706	ERD2FCVG181T	1/4W 180 ⚠
R709	ERDS2TJ101	1/4W 100
R710	ERDS2EJ820	1/4W 82
R711, 712	ERDS2TJ3R3T	1/4W 3.3
R713, 714	ERDS2TJ152	1/4W 1.5K
R715	ERDS2TJ684	1/4W 680K
R716	ERDS2TJ154	1/4W 150K
R717	ERDS2TJ392T	1/4W 3.9K
R718	ERDS2TJ103	1/4W 10K
R719	ERDS2TJ333	1/4W 33K
R720	ERDS2TJ153	1/4W 15K
R721	ERDS2TJ473	1/4W 47K
R722	ERDS2TJ4R7T	1/4W 4.7
R723	ERDS1FVJ181T	1/2W 180 ⚠
R724	ERDS2TJ120T	1/4W 12
R725	ERDS2TJ122	1/4W 1.2K
R726	ERDS2TJ4R7T	1/4W 4.7
R801, 802	ERDS2TJ823T	1/4W 82K
R803, 804	ERDS2TJ103	1/4W 10K
R805, 806	ERDS2TJ332	1/4W 3.3K

Ref. No.	Part No.	Values & Remarks
R807, 808	ERDS2TJ393	1/4W 39K
R809, 810	ERDS2TJ153	1/4W 15K
R811, 812	ERDS2TJ103	1/4W 10K
R813, 814	ERDS2TJ153	1/4W 15K
R815, 816	ERDS2TJ273	1/4W 27K
R817, 818	ERDS2TJ470	1/4W 47
R819-822	ERDS2TJ272T	1/4W 2.7K
R825	ERDS2TJ472	1/4W 4.7K
R829, 830	ERDS2TJ222	1/4W 2.2K
R831, 832	ERDS2TJ392T	1/4W 3.9K
R833, 834	ERDS2TJ331	1/4W 330
R835, 836	ERDS2TJ181T	1/4W 180
R837, 838	ERDS2TJ393	1/4W 39K
R839, 840	ERDS2TJ391	1/4W 390
R841	ERDS2TJ332	1/4W 3.3K
R842	ERDS2TJ223	1/4W 22K
R843, 844	ERDS2TJ105T	1/4W 1M
R845	ERDS2TJ104	1/4W 100K
R847, 848	ERDS2TJ105T	1/4W 1M
R851-854	ERDS2TJ224T	1/4W 220K
R860	ERDS2TJ472	1/4W 4.7K
R861, 862	ERDS2TJ222	1/4W 2.2K
R863, 864	ERDS2TJ221	1/4W 220
R865, 866	ERDS2TJ102	1/4W 1K
R867	ERDS2TJ334	1/4W 330K
R868	ERDS2TJ105T	1/4W 1M
R869, 870	ERDS2TJ152	1/4W 1.5K
R871, 872	ERDS2TJ473	1/4W 47K
R873, 874	ERDS2TJ563	1/4W 56K
R875, 876	ERDS2TJ103	1/4W 10K
R877, 878	ERDS2TJ392T	1/4W 3.9K
R879, 880	ERDS2TJ102	1/4W 1K
R883, 884	ERDS2TJ152	1/4W 1.5K
R885, 886	ERDS2TJ333	1/4W 33K
R951	ERDS2TJ332	1/4W 3.3K
R952	ERDS2TJ103	1/4W 10K
R953	ERDS2TJ183T	1/4W 18K
R954	ERDS2TJ103	1/4W 10K
R955	ERDS2TJ473	1/4W 47K
R956	ERDS2TJ272T	1/4W 2.7K
R957	ERDS2TJ103	1/4W 10K
R958	ERDS2TJ102	1/4W 1K
		CAPACITORS
C101, 102	ECBT1H102KB5	50V 1000P
C103, 104	ECEA0JK330	6.3V 33U
C105, 106	ECQB1H223JZ3	50V 0.022U
C107, 108	ECQB1H682JZ3	50V 6800P
C109, 110	ECEA1HPS3R3	50V 3.3U
C111, 112	ECBT1H221KB5	50V 220P (EG)
C113, 114	ECBT1H221KB5	50V 220P

Ref. No.	Part No.	Values & Remarks
C115-118	ECBT1H101KB5	50V 100P (EG)
C119, 120	ECBT1H104ZF5	50V 0.1U (EG)
C200	ECBT1H102KB5	50V 1000P E, EB, GC, GN
C200	ECBT1H681KB5	50V 680P (EG)
C201	ECBT1H104ZF5	50V 0.1U (EG)
C211, 212	ECEA1HKA010B	50V 1U
C215, 216	ECBT1E103ZF	25V 0.01U
C217	ECBT1H330J5	50V 33P
C219	ECBT1H101KB5	50V 100P
C230	ECBT1H104ZF5	50V 0.1U
C231, 232	ECEA1HPS3R3	50V 3.3U
C233	ECFR1E823KR	25V 0.082U
C234	ECFR1E222KV	25V 2200P
C235	ECEA1CPS100	16V 10U
C236	ECEA1HKA010B	50V 1U
C243, 244	ECEA1CPS100	16V 10U
C271	ECBT1H102KB5	50V 1000P
C272	ECEA1HPS3R3	50V 3.3U
C273, 274	ECBT1H101KB5	50V 100P
C275	ECEA1HPS3R3	50V 3.3U
C300	ECBT1H104ZF5	50V 0.1U
C303, 304	ECEA1HKAR47B	50V 0.47U
C305, 306	ECQV1H104JZ3	50V 0.1U
C307, 308	ECEA1HKR22B	50V 0.22U
C309, 310	ECFR1E223KR	25V 0.022U
C311, 312	ECFR1E563KR	25V 0.056U
C313, 314	ECFR1E562KR	25V 5600P
C315, 316	ECFR1E123KR	25V 0.012U
C317, 318	ECFR1E152KR	25V 1500P
C319, 320	ECFR1E392KR	25V 3900P
C321, 322	ECBT1H561KB5	50V 560P
C323, 324	ECBT1H821KB5	50V 820P
C327, 328	ECEA1AKA330Q	10V 33U
C331	ECBT1H100J5	50V 10P
C332, 333	ECBT1H561KB5	50V 560P
C334, 335	ECEA1HK2R2B	50V 2.2U
C336, 337	ECFR1E152KR	25V 1500P
C338, 339	ECFR1E562KR	25V 5600P
C340, 341	ECEA1HK2R2B	50V 2.2U
C342, 343	ECFR1E223KR	25V 0.022U
C344, 345	ECFR1E333KR	25V 0.033U
C346	ECEA1HK2R2B	50V 2.2U
C351, 352	ECEA1CK470	16V 47U
C353, 354	ECEA1HPS3R3	50V 3.3U
C355	ECBT1E103ZF	25V 0.01U
C356	ECEA1HKA010B	50V 1U
C357, 358	ECEA1HPS3R3	50V 3.3U
C361, 362	ECBT1H104ZF5	50V 0.1U
C363, 364	ECBT1H221KB5	50V 220P (EG)
C400	ECEA1CK470	16V 47U
C401, 402	ECEA1CKA100B	16V 10U
C403, 404	ECBT1H270J5	50V 27P

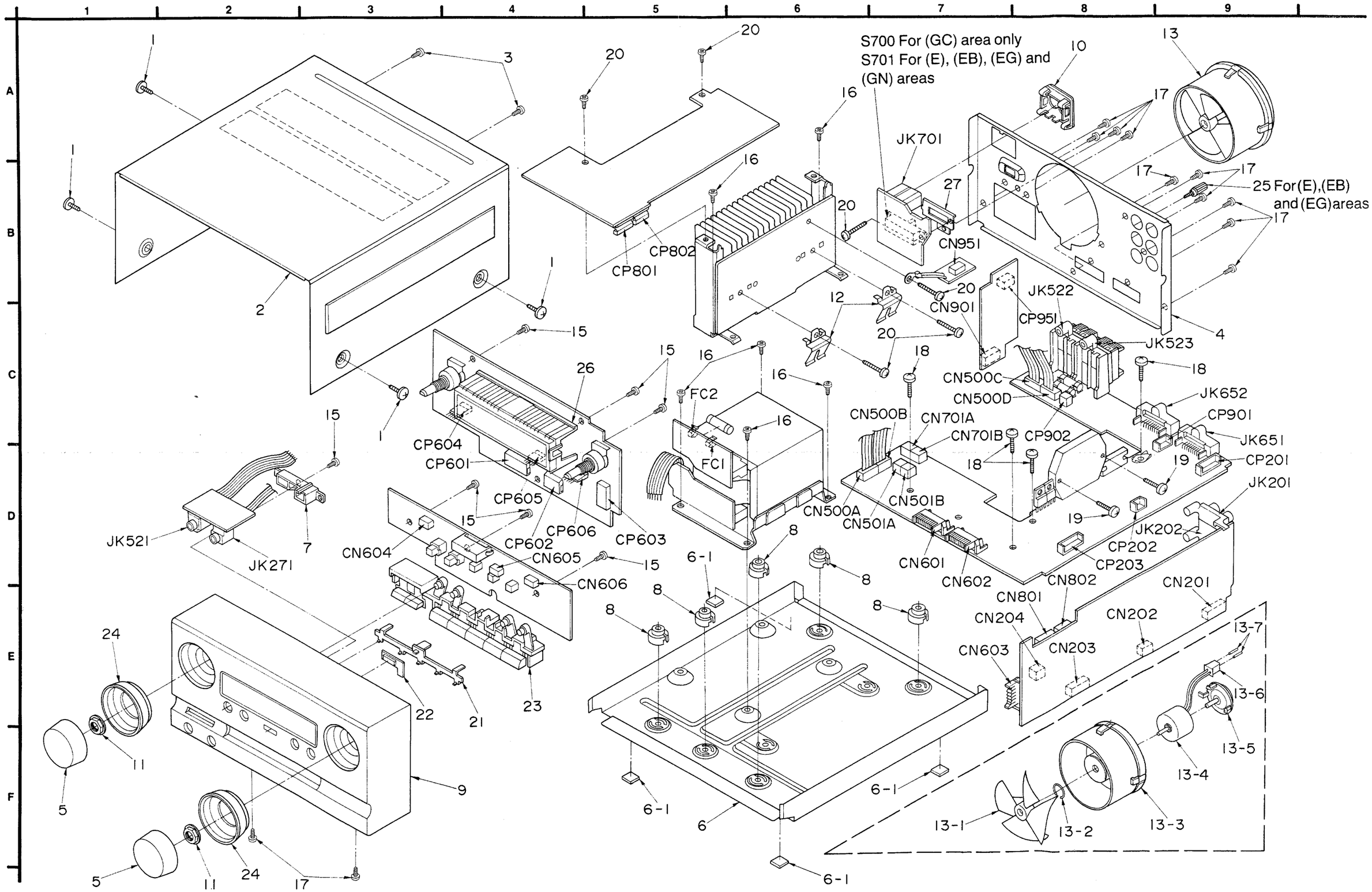
Ref. No.	Part No.	Values & Remarks
C405, 406	ECEA1HPS3R3	50V 3.3U
C407, 408	ECEA1CPS220	16V 22U
C411, 412	ECBT1E103ZF	25V 0.01U
C413, 414	ECBT1E223ZF	25V 0.022U
C415, 416	ECEA1CKA100B	16V 10U
C417, 418	ECEA1HKA010B	50V 1U
C501, 502	ECEA1EN3R3SB	25V 3.3U
C511, 512	ECBT1H820KB5	50V 82P
C513, 514	ECEA1CPS100	16V 10U
C515, 516	ECBT1H150J5	50V 15P
C517	ECEA1EN220SB	25V 22U
C518	ECEA1EN100SB	25V 10U
C519, 520	ECFR1E223KR	25V 0.022U
C521, 522	ECBT1H821KB5	50V 820P
C524	ECEA1CKA100B	16V 10U
C525, 526	ECEA1HKA010B	50V 1U
C527, 528	ECBT1H223ZF5	50V 0.022U (EG)
C550	ECEA1HPS2R2	50V 2.2U
C551, 552	ECEA1HPS3R3	50V 3.3U
C553, 554	ECEA1EU101	25V 100U
C555	ECEA1EU221	25V 220U
C556	ECBT1E223ZF	25V 0.022U E, EB, GC, GN
C557, 558	ECEA1EU101	25V 100U
C559, 560	ECFR1E473KR	25V 0.047U
C561	ECEA1HU101	50V 100U
C563	ECBT1C272KR5	16V 2700P (E, GC, GN)
C563	ECBT1C332KR5	16V 3300P (EG)
C564	ECBT1C272KR5	16V 2700P (E, GC, GN)
C564	ECBT1C332KR5	16V 3300P (EG)
C565, 566	ECKR1H103ZF5	50V 0.01U (EG)
C571	ECEA1CKA100B	16V 10U
C572	ECEA1EU101	25V 100U
C573	ECBT1E103ZF	25V 0.01U
C574, 575	ECEA0JKA470B	6.3V 47U
C601	ECEA0JKA220B	6.3V 22U
C602	ECBT1E103ZF	25V 0.01U
C603	ECEA0JKA101B	6.3V 100U
C604	ECBT1E103ZF	25V 0.01U
C606	ECEA1HKA010B	50V 1U
C607, 608	ECEA1HK3R3	50V 3.3U
C610	ECEA1HKA010B	50V 1U
C615, 616	ECEA1HKA010B	50V 1U
C617	ECQV1H683JZ3	50V 0.68U
C618	ECFR1E333KR	25V 0.033U
C620	ECEA1VKA330B	35V 33U
C621	ECEA1HKA010B	50V 1U
C625	ECFR1E223KR	25V 0.022U
C626, 627	ECBT1H471KB5	50V 470P
C701	ECKR2H103ZU	500V 0.01U
C702	ECEA1HU4R7	50V 4.7U
C703	ECEA45V472YB	45V 4700U
C704	ECEA1HU222B	50V 2200U

Ref. No.	Part No.	Values & Remarks
C705	ECEA1HU330	50V 33U
C706	ECEA1HU101	50V 100U
C708	ECBT1E103ZF	25V 0.01U
C709	ECEA1CK470	16V 47U
C711, 712	ECKR1H103ZF5	50V 0.01U
C713, 714	ECEA1CKA101B	16V 100U
C716-718	ECKR2H102ZF5	500V 1000P
C719	ECEA1HKA010B	50V 1U
C720	ECBT1E103ZF	25V 0.01U
C723	ECEA1CKA100B	16V 10U
C799	ECBT1E103ZF	25V 0.01U E, EB, GC, GN
C801, 802	ECEA1HPS3R3	50V 3.3U
C803, 804	ECEA1HPS2R2	50V 2.2U
C805, 806	ECFR1E822KR	25V 8200P
C807, 808	ECFR1E272KR	25V 2700P
C809, 810	ECFR1E473KR	25V 0.047U
C813, 814	ECEA1HPS3R3	50V 3.3U
C815, 816	ECFR1E223KR	25V 0.022U
C819, 820	ECFR1E183KR	25V 0.018U
C821-824	ECFR1E822KR	25V 8200P
C827, 828	ECEA1HPS3R3	50V 3.3U
C829-832	ECEA1HKR68	50V 0.68U
C833, 834	ECEA1HPS3R3	50V 3.3U
C835, 836	ECEA1HPS2R2	50V 2.2U
C837, 838	ECEA1HPS3R3	50V 3.3U
C842	ECEA1CKA100B	16V 10U
C843	ECEA1CK470	16V 47U
C951	ECEA1HKA010B	50V 1U

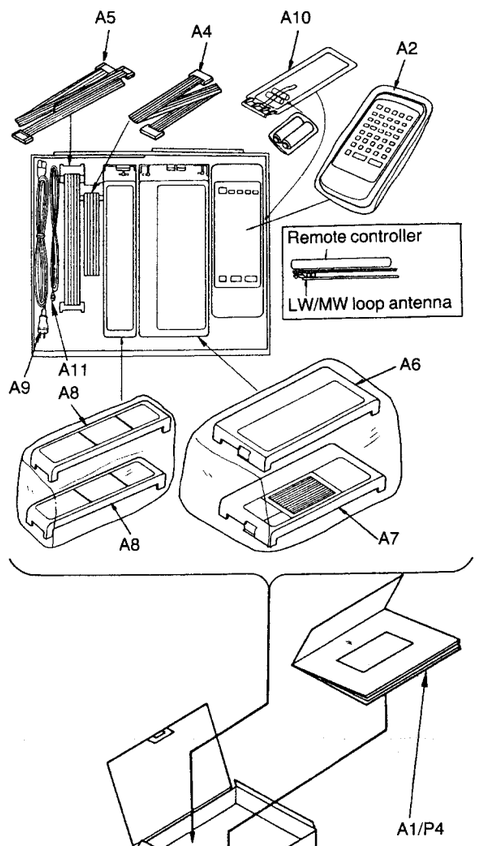
Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET PARTS	
1	RHD30007	SCREW	
2	RKMD105B-K	CABINET	
3	XTBS3+8JFZ1	SCREW	
4	RGR0114C-B1	REAR PANEL	(E)
4	RGR0114C-A1	REAR PANEL	(EB)
4	RGR0114C-C1	REAR PANEL	(EG)
4	RGR0114D-A1	REAR PANEL	(GC)
4	RGR0114C-D	REAR PANEL	(GN)
5	RGW0113-K	KNOB, VOLUME	
6	RFKJUCH7N-K	BOTTOM BOARD ASS'Y	
6-1	SHG1654	FOOT	
7	RMN0121	HOLDER	
8	SHE170-2	HOLDER	
9	RFKGUCH7E-K	FRONT PANEL ASS'Y	(E, EB, EG)
9	RFKGUCH7N-K	FRONT PANEL ASS'Y	(GC, GN)
10	SJS9231A	AC INLET COVER	(E, EB, EG, GC)
10	SJS9234A	AC INLET COVER	(GN)
11	SNE4021-1	NUT	
12	SUS894-1	HOLDER	
13	SYE1128-5	FAN ASS'Y	
13-1	SHE232	FAN	
13-2	SUS271	SPRING	
13-3	SHE233	FAN CASE	
13-4	MDN-4RB4MRC	MOTOR	
13-5	SHE234	CAP	
13-6	SJS5215	SOCKET	
13-7	SJT783	TERMINAL	
15	XTBS26+8J	SCREW	
16	XTBS3+8FFZ1	SCREW	
17	XTBS3+8JFZ1	SCREW	
18	XTB3+12JFZ	SCREW	
19	XTB3+16JFZ	SCREW	
20	XTB3+8JFZ	SCREW	
21	RGL0121-C	PANEL LIGHT	
22	RGL0122-C	ORNAMENT(SUPER BASS)	
23	RGU0548B-K	BUTTON, SELECTOR	
24	RFKNUCH7E-K	VOLUME ORNAMENT ASS'Y	
25	SNE2123	GND SCREW	(E, EB, EG)
26	RMN0120	FL HOLDER	
27	RMN0144	HOLDER	(E, EB, EG, GN)
		PACKING MATERIAL	
P1	RPG0925	PACKING CASE	SYSTEM(E)
P1	RPG1044	PACKING CASE	SYSTEM(EB)
P1	RPG1045	PACKING CASE	SYSTEM(EG)
P1	RPG1051	PACKING CASE	SYSTEM(GC)
P1	RPG1052	PACKING CASE	SYSTEM(GN)
P2	RPG0821	PACKING CASE	ST-CH7, SL-CH7

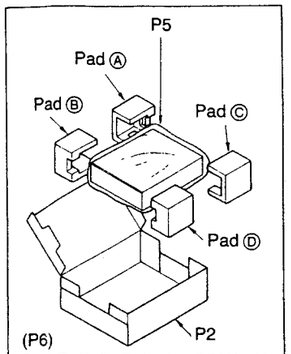
Ref. No.	Part No.	Part Name & Description	Remarks
P2	RPG0822	PACKING CASE	SU-CH7, RS-CH7
P3	RPN0504	ACCESSORY BOX	
P4	SPB1061	PROTECTION COVER(MANUAL)	
P5	XZB35X34C04	PROTECTION COVER	
P6	RPN0449	PAD	ST-CH7, SL-CH7
P6	RPN0450	PAD	SU-CH7, RS-CH7
		ACCESSORIES	
A1	RQF1125	INSTRUCTIONS MANUAL ASS'Y	(E)
A1	RQF1126	INSTRUCTIONS MANUAL ASS'Y	(EB)
A1	RQF1127	INSTRUCTIONS MANUAL ASS'Y	(EG)
A1	RQF1128	INSTRUCTIONS MANUAL ASS'Y	(GC)
A1	RQF1129	INSTRUCTIONS MANUAL ASS'Y	(GN)
A1-1	RFKSUCH7E-K	INSTRUCTIONS MANUAL	(E)
A1-1	RQT1034-B	INSTRUCTIONS MANUAL	(EB)
A1-1	RQT1035-D	INSTRUCTIONS MANUAL	(EG)
A1-1	RQT1211-G	INSTRUCTIONS MANUAL	(GC, GN)
A1-2	RQA0013	WARRANTY CARD	(E, EB, EG)
A1-2	SQX7186	WARRANTY CARD	(GN)
A1-3	RQCB0169	SERVICENTER LIST	
A2	RAK-SC510W	REMOTE CONTROLLER	(E, EB, EG)
A2	RAK-SC511W	REMOTE CONTROLLER	(GC, GN)
A2-1	RKKD020-K	BATTERY COVER	
A3	REC201B50Q-1	SPEAKER CABLE	
A4	REX9162	FLAT CABLE	
A5	REX9163	FLAT CABLE	
A6	RKF0127E-K2	BACK COVER(DECK)	(RS-CH7)
A7	RKF0127D-K2	BACK COVER(AMP.)	(SU-CH7)
A8	RYF0122-K	BACK COVER(TUNER/CD PLAYER)	(ST-CH7/SL-CH7)
A9	SFDAC05E03	AC POWER SUPPLY CORD	⚠(E, EG)
A9	SJA193	AC POWER SUPPLY CORD	⚠(EB)
A9	RJA0004	AC POWER SUPPLY CORD	⚠(GC)
A9	SJA173	AC POWER SUPPLY CORD	⚠(GN)
A10	SPB1163T	AM LOOP ANTENNA	
A10-1	SMA233-1M	HOLDER	
A10-2	XTN3+10AFZ	SCREW	
A11	SSA270M	FM ANTENNA	(E, EB, EG)
A11	SSA272M	FM ANTENNA	(GC, GN)
A12	SJP9009	ATTACHMENT PLUG	⚠(EB)
A13	SJP9215	AC PLUG ADAPTOR	⚠(GC)

■ CABINET PARTS LOCATION

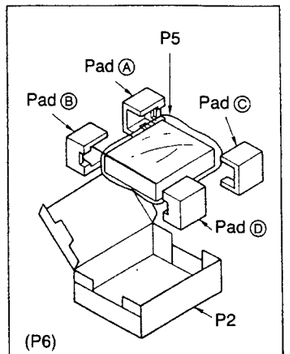


■ PACKING (For System: SC-CH7)

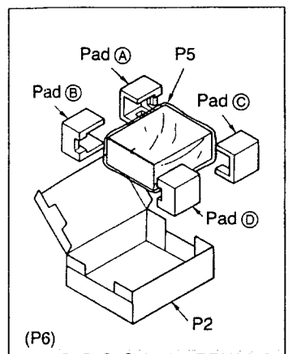




(P6)
Pad Ⓐ Ⓑ Ⓒ Ⓓ Ass'y: RPN0449
[SL-CH7]



(P6)
Pad Ⓐ Ⓑ Ⓒ Ⓓ Ass'y: RPN0449
[ST-CH7L]



(P6)
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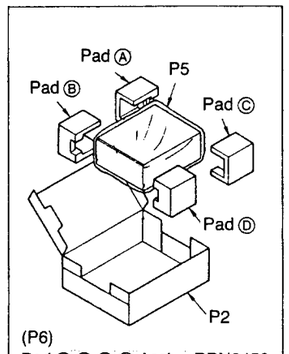
[RS-CH7]



(P6)
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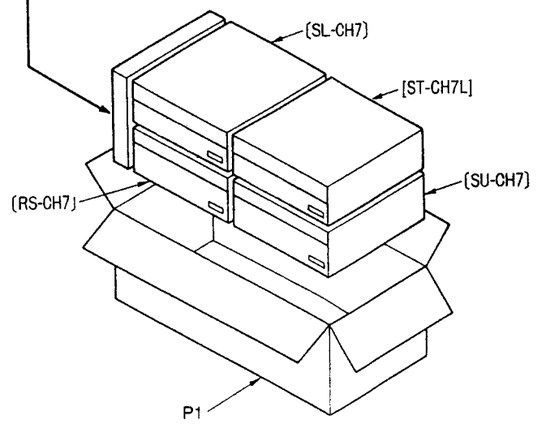
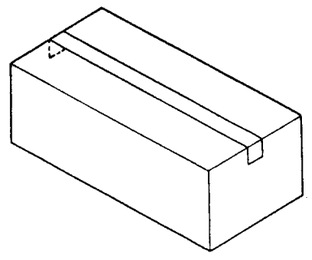
[SU-CH7]





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